

D I F F U S I O N

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TECNICA

**TECNICA**<sup>TM</sup>

Efficient Indoor Air Project

EN

**TECNICA<sup>TM</sup>**

Efficient Indoor Air Project

TECNICA srl  
is a company certified  
UNI EN 9001:2015  
issued by TÜV ITALIA.  
Certificate number 50100 15241



# TECNICA™

## Efficient Indoor Air Project

The words "**Efficient Indoor Air Project**" reflect the mission of **TECNICA™**: *to develop products that are focused on preserve the health of people living in confined spaces and to environmental sustainability in its most complete sense.* The constant evolution of our products, as a result of our continuous Research and Development conducted on materials, technologies and production techniques, make us a leading company in the **production of flexible hoses, diffusers and filters** for the air conditioning and ventilation of confined spaces within **executive, commercial, residential, hotel, hospital, automotive and naval sectors**. The **DIFFUSION** catalog collects all our range of diffusers and highlights their technical peculiarities, their possible range of applications, the sanitization certifications and their contribution to the credits of the **main world sustainability ratings in construction: LEED, WELL and BREEAM**.

Welcome to TECNICA™ - Efficient Indoor Air Project



**BREEAM®**

patented, sanitizing products, guaranteed and certified effectiveness for 10 years, which also contribute to the credits of the main world sustainability ratings in the building industry.

# Sanitized Air

## PlenuSan™ by **TECNICA™**



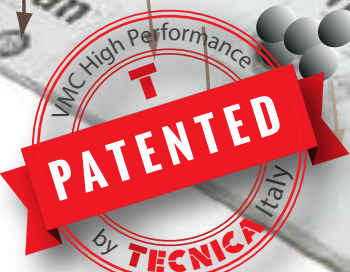
From TECNICA™ research in collaboration with **Sanitized®**, the range of **sanitizing plenums** PlenuSan™ has been developed to prevent the proliferation of bacteria and mold in the aeraulic duct system. The PlenuSan™ sanitizing action reduces the introduction of unhealthy air into confined spaces, **ensuring high standards of Indoor Air Quality**, as required by the World Health Organization, reducing the arise or aggravation of respiratory diseases such as allergies, asthma, emphysema and chronic lung disease. **The sanitizing action of PlenuSan™ does not release chemicals that are harmful to health.**



FRIENDLY CHEMISTRY



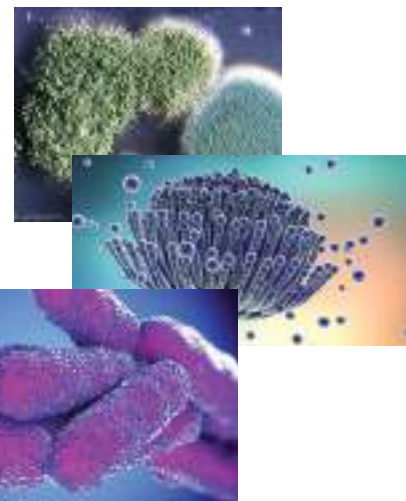
NON-TOXIC



patented film  
with antimicrobial and  
anti-mold action

# Why PlenuSan™ antibacterial ducts?

**Because bacteria**, as well as **fungi, germs and molds** present in the air passing through the aeraulic systems, can easily nest on the walls of the ducts and can multiply extremely quickly if the humidity and temperature conditions are such as to favor their growth and proliferation .



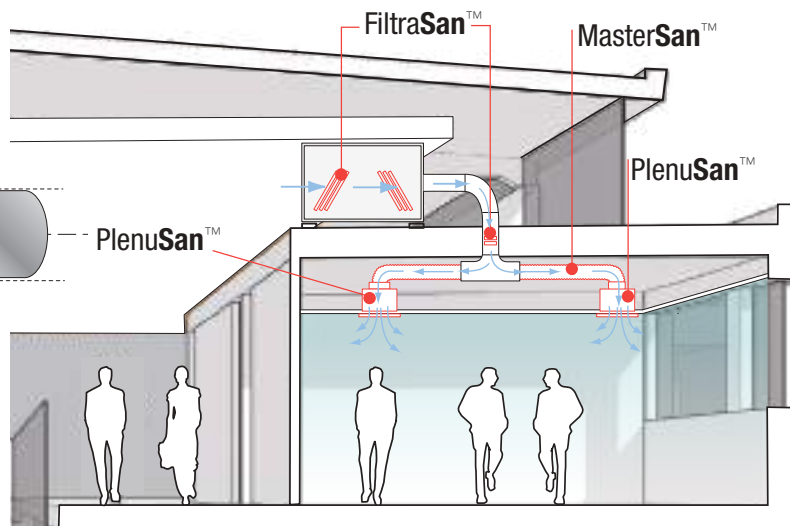
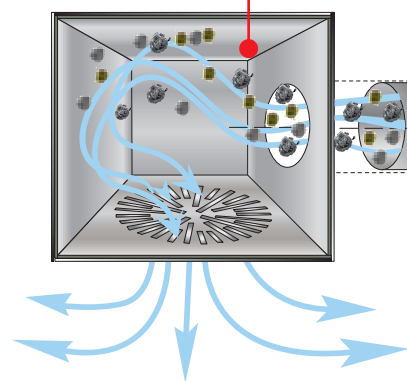
These unwanted microorganisms negatively influence the hygienic conditions of the aeraulic system giving rise, for example, to unpleasant smells or the accumulation of bacteria, fungi and molds, as well as being the cause of individual allergic reactions. In air distribution systems (conditioning, mechanical ventilation, etc.) PlenuSan™ **sanitizing plenums perform a preventive action without releasing chemical compounds harmful to health.**



PlenuSan™ create an **anti-bacterial** and **antifungal barrier** with **guaranteed sanitizing effectiveness CERTIFIED 10 years**

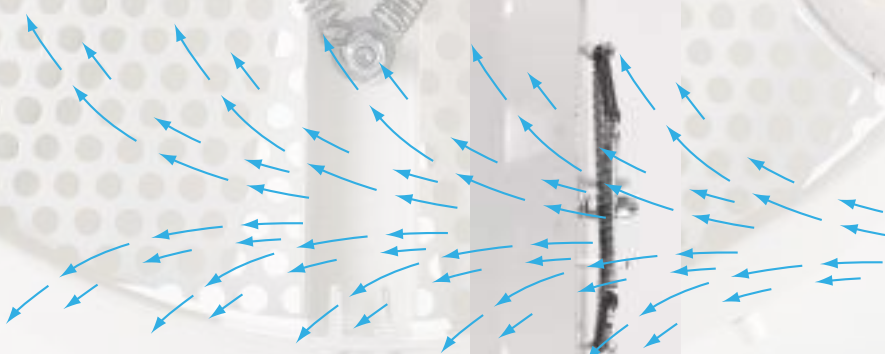


the sanitizing action occurs through the contact of air with the internal walls of the PlenuSan™



# Self-Adjusting Regulation

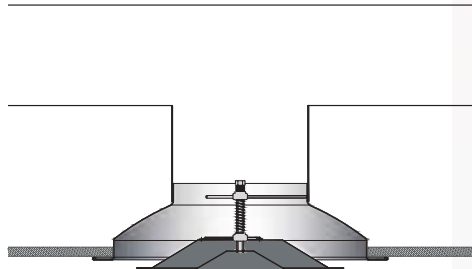
From the design and production know-how of TECNICA™, a **range of high induction and adjustable cones diffusers** has been developed, equipped with a **thermostatic spring adjustment system** that allows to **independently change** the position of blades and cones based on the air flow temperature flow. The **thermostatic effect** allows to autonomously adjust the diffusion components based on the temperature of the air introduced, **to obtain the appropriate throw, improving features such as pressure drop, air speed, sound level and energy efficiency.**



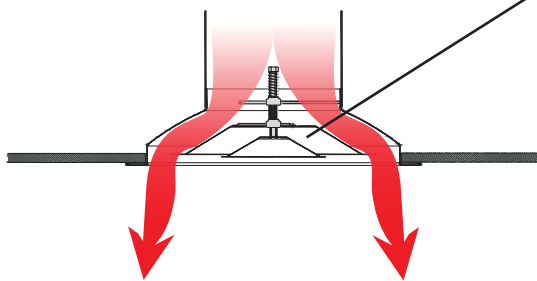
ENERGY  
EFFICIENCY

# Thermostatic

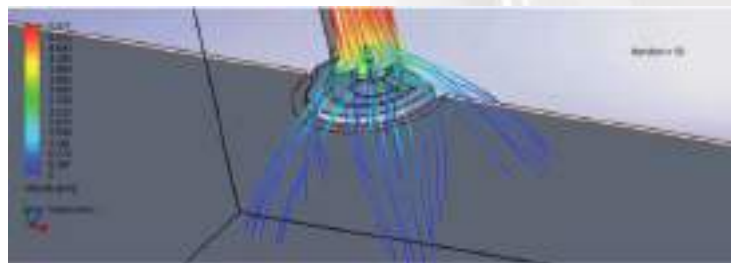
by **TECNICA**<sup>TM</sup>



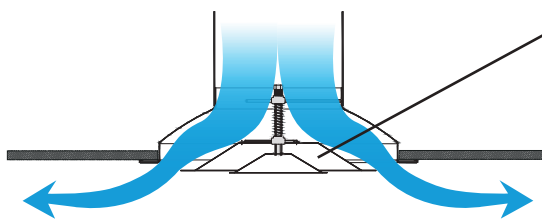
**HEATING**  
Vertical Throw



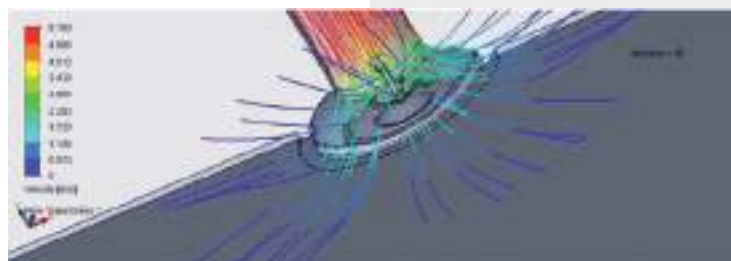
**central cone in upper position:** heating optimal position for rooms with particularly high ceiling, up to 6m in order to get a vertical throw which opposes the convective motion of the air in the environment.



**COOLING**  
Horizontal Throw



**central cone in lower position:** cooling optimal position in order to get an horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4m. With this configuration is possible to reach the best working conditions as regards for pressure drop, air speed and sound level.







# Green building contribution

by **TECNICA™**

**TECNICA™** has focused on **sustainability** as a strategic lever of the company policy, promoting **product innovation** (materials, technologies and production techniques) and the **development of concrete actions**. We have evolved our approach to **resources**, increased the **circularity of the products** life cycle, developed new potentials, promoted awareness of concepts such as sustainability and transparency, and implemented actions for the specific **positioning of our products with respect to the main international sustainability ratings in construction: LEED, WELL and BREEAM**.



FRIENDLY  
CHEMISTRY



SUSTAINABILITY



RECYCLABILITY



SANITATION



NON-TOXIC



ENERGY  
EFFICIENCY



We have verified the contribution of our products and services to the LEED, WELL and BREEAM protocols, adopting the language of architects, designers, builders, investors and buyers, positioning our products according to the selection criteria adopted for the “final product” of the supply chain : the buildings.



### **LEED®** (Leadership in Energy and Environmental Design)

It is a building assessment protocol that involves the entire life cycle of the building itself, from design to construction. Promotes a sustainability-oriented approach, recognizing the performance of buildings in key sectors, such as energy, water savings, reduction of CO2 emissions, improvement of the ecological quality of the interiors, materials and resources used, the project and the choice of the site. Developed by the U.S. Green Building Council (USGBC), the system is based on the attribution of “credits” for each requirement.



### **WELL™**

It is a building assessment protocol that focuses on the health and mental well-being of those who occupy a given built space. Considering the amount of time spent in closed environments, about 90% of a day, the WELL™ certification can be applied to all construction sectors and to all uses of buildings (residential, school, hospital, etc. ..) but finds its maximum expression especially in workplaces (offices, industries) in which the achievement of a serenity condition can have positive implications also on the productivity of the whole company.

## **BREEAM®**

### **BREEAM®** (Building Research Establishment Environmental Assessment Method)

It is a building assessment protocol, established in the UK, which focuses on the environmental performance of buildings. BREEAM® is based on recognized assessment methods set according to pre-established reference parameters in order to verify the design process and the construction and use of the buildings. The criteria concern different categories, from resource management to ecology, and include aspects related to the use of energy and water, the internal environment (health and well-being), pollution, transport, materials, waste, ecology and management processes.







# TECNICA™

## Efficient Indoor Air Project

**TECNICA™** is the first manufacturer of flexible hoses, diffusers and filters for air conditioning and ventilation to have carried out the verification of its products and highlighted their contribution to the certified sustainability credits according to the **LEED, WELL and BREEAM** protocols. **TECNICA™** policy for sustainability involves the entire economic supply-chain and contributes to the realization of products according to a **conscious use of primary resources**, promoting their circularity and guiding all interested users in the construction **supply chain to enhance the adoption of certified sustainability in construction processes** using products that concretely contribute to it.



## COMPLIANCE WITH THE PREREQUISITES AND CREDITS OF THE FOLLOWING BUILDING SUSTAINABILITY RATING SYSTEMS

PRODUCT	PG.			BREEAM®
PS01L	14	IP, MR	MATERIALS, COMMUNITY, INNOVATION	MAN
PS02L	16	IP, MR	MATERIALS, COMMUNITY, INNOVATION	MAN
PS03L	18	IP, MR	MATERIALS, COMMUNITY, INNOVATION	MAN
PS05L	20	IP, MR	MATERIALS, COMMUNITY, INNOVATION	MAN
DCMC	22	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DCMC THERM	26	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DCMQ	30	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DCMQ THERM	34	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DCSC	38	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DCSC THERM	42	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DCSQ	46	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DCSQ THERM	50	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DSR-DSRS	54	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DSRS THERM	60	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DSRQ-DSRSQ	66	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DSRSQ THERM	70	IP, EA, MR, EQ	THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DLG	74	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DMU	78	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM01C	82	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM01	86	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAF01	90	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM31	94	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM02C	96	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM02	100	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM12C	104	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM12	108	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM15	112	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM11	116	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DAM41	120	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DAM51	124	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DAM71	128	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM81	130	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM61	132	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DAM21R	134	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DGF	140	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DWS	144	IP, EA, MR	MATERIALS, COMMUNITY	MAN, WST
DFL-P	146	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DFL-A	154	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DEL-P	162	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
DEL-A	170	IP, EA, MR, EQ	AIR, THERMAL COMFORT, MATERIALS, COMMUNITY	MAN, HEA, WST
P01L	190	IP, MR	MATERIALS, COMMUNITY	MAN
P02L	192	IP, MR	MATERIALS, COMMUNITY	MAN
P03L	194	IP, MR	MATERIALS, COMMUNITY	MAN
P05L	196	IP, MR	MATERIALS, COMMUNITY	MAN

# DIFFUSION

## SANITIZED DIFFUSION PlenuSan™ FOR CONE DIFFUSERS AND/OR ADJUSTABLE DEFLECTORS

PS01L PlenuSan™	P. 14
PS02L PlenuSan™	P. 16
PS03L PlenuSan™	P. 18
PS05L PlenuSan™	P. 20

## DIFFUSERS WITH ADJUSTABLE CONES

DCMC	P. 22
DCMC Therm	P. 26
DCMQ	P. 30
DCMQ Therm	P. 34
DCSC	P. 38
DCSC Therm	P. 42
DCSQ	P. 46
DCSQ Therm	P. 50

## VARIABLE GEOMETRY DIFFUSERS

DSR - DSRS	P. 54
DSRS Therm	P. 60
DSRQ-DSRSQ	P. 66
DSRSQ Therm	P. 70

## DIFFUSERS WITH ORIENTABLE NOZZLES

DLG	P. 74
DMU	P. 78

## DIFFUSERS WITH/WITHOUT ADJUSTABLE DEFLECTORS

DAM01C	P. 82
DAM01	P. 86
DAF01	P. 90
DAM31	P. 94
DAM02C	P. 96
DAM02	P. 100
DAM12C	P. 104

# DIFFUSION

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DAM12	P. 108
DAM15	P. 112
DAM11	P. 116
DAM41	P. 120
DAM51	P. 124
DAM71	P. 128
DAM81	P. 130
DAM61	P. 132
DAM21R	P. 134

## HIGH INDUCTION CIRCULAR DIFFUSERS WITH FIXED FINS

DGF	P. 140
DWS	P. 144

## SLOTTED LINEAR DIFFUSERS

DFL-P	P. 146
DFL-A	P. 154
DEL-P	P. 162
DEL-A	P. 170

## VALVE DIFFUSERS

VEA	P. 178
VMA	P. 180
VPM	P. 182

## CALIBRATING DAMPERS

SER01	P. 184
SER02	P. 186
SER03	P. 188

## Plenum FOR DIFFUSERS WITH CONES AND/OR ADJUSTABLE DEFLECTORS

P01L Plenum	P. 190
P02L Plenum	P. 192
P03L Plenum	P. 194
P05L Plenum	P. 196



# PS01L PlenuSan™

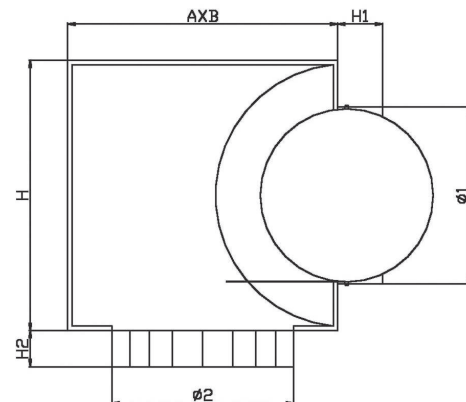
Plenum with a protective film with antibacterial and antimycotic action and side outlet for circular diffusers with adjustable cones and for variable geometry diffusers.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel coupled with insulating material coated with sanitized film.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	With screws to the diffuser neck

## APPLICATION

The plenum P01 is suitable for installation on circular diffusers with adjustable cones. It is made of galvanized steel and can be coated with insulating material and be equipped with an equalizer and calibration damper with opening and closing lever.



## TECHNICAL DATA

Nominal Ø [mm]	A x B [mm]	H [mm]	H1 [mm]	H2 [mm]	Ø 1 [mm]	Ø 2 [mm]
100	200	200	85	50	96	102
150	251	220	85	50	150	150
160	251	220	85	50	160	160
200	291	220	85	50	198	200
250	341	310	85	50	248	250
300	391	360	85	50	298	303
315	406	375	85	50	313	318
350	441	410	85	50	348	353
400	550	550	85	50	396	402
450	600	600	85	50	446	452
500	730	730	85	50	496	502
630	730	730	85	50	626	632

## CERTIFICATIONS

### SANITIZATION

#### SANITIZED TECHNOLOGY

PlenuSan™ is produced by coupling the new generation polyolefin film inside the plenum inner surfaces with the addition of the "Antibacterial Santized" active ingredient capable of reducing the microbial and bacterial load before being distributed inside the indoor spaces.



IT

Expanded polyethylene support:  
Class 1 (DM 26/06/84)

EU

Expanded polyethylene support:  
Class 2 (EN 14313: 2009 - A1:2013)

## 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, MR



**WELL**

Contributes to credits:  
MATERIALS, COMMUNITY, INNOVATION

**BREEAM**®

**BREEAM**

Contributes to credits:  
MAN

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request





# PS02L PlenuSan™

Plenum with a protective film with antibacterial and antimycotic action and side outlet for diffusers with adjustable deflectors.

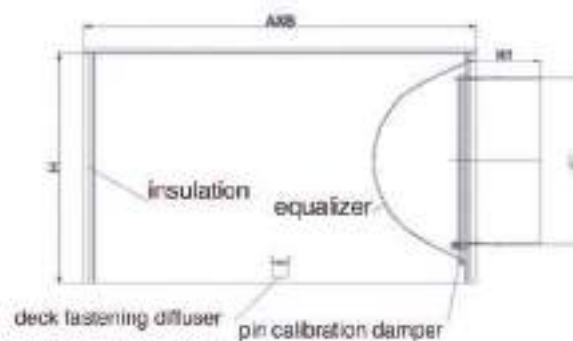
## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel coupled with insulating material coated with sanitized film.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

## APPLICATION

The plenum P02 is suitable for installation on diffusers with adjustable deflectors. It is made of galvanized steel. It can be coated with insulating material and be equipped with an equalizer and calibration slide gate with opening and closing pin. The inlet is positioned on the side of the plenum.

Standard product with side inlet



## TECHNICAL DATA

Nominal Ø [mm]	A x B [mm]	H [mm]	H1 [mm]	Ø C [mm]
300	291x291	245	110	150
400	391x391	295	110	200
500	491x491	295	110	200
600	591x591	345	110	250
625	621x621	345	110	250
800	791x791	395	110	250

## CERTIFICATIONS

### SANITIZATION

#### SANITIZED TECHNOLOGY

PlenuSan™ is produced by coupling the new generation polyolefin film inside the plenum inner surfaces with the addition of the "Antibacterial Santized" active ingredient capable of reducing the microbial and bacterial load before being distributed inside the indoor spaces.



NO BACTERIA NO MOLD

IT

Expanded polyethylene support:  
Class 1 (DM 26/06/84)

EU

Expanded polyethylene support:  
Class 2 (EN 14313: 2009 - A1:2013)

## 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, MR



**WELL**

Contributes to credits:  
MATERIALS, COMMUNITY, INNOVATION

**BREEAM®**

**BREEAM**

Contributes to credits:  
MAN

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request



# PS03L PlenuSan™

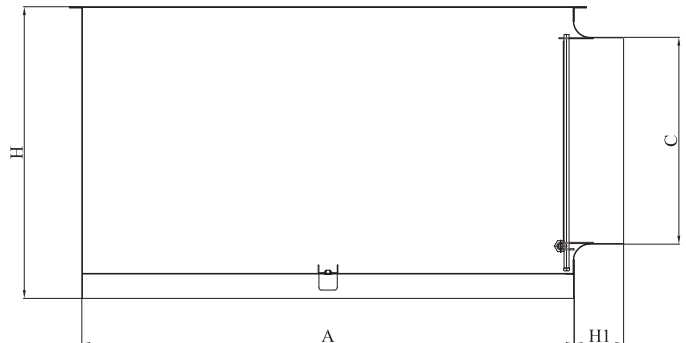
Plenum with a protective film with antibacterial and antimycotic action and side outlet for circular diffusers with adjustable deflectors.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel coupled with insulating material coated with sanitized film.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

## APPLICATION

The plenum P03 is suitable for installation on diffusers with adjustable deflectors. It is made of galvanized steel. It can be coated with insulating material and be equipped with an equalizer and calibration slide gate with opening and closing pin. The inlet is positioned on the side of the plenum.



## TECHNICAL DATA

Nominal Ø [mm]	Ø A [mm]	H [mm]	H1 [mm]	Ø C [mm]
300	291	248	40	150
400	391	300	40	200
500	491	298	40	200
600	591	348	40	248
625	611	348	40	248
800	791	398	40	320

## CERTIFICATIONS

### SANITIZATION

#### SANITIZED TECHNOLOGY

PlenuSan™ is produced by coupling the new generation polyolefin film inside the plenum inner surfaces with the addition of the "Antibacterial Santized" active ingredient capable of reducing the microbial and bacterial load before being distributed inside the indoor spaces.



IT

Expanded polyethylene support:  
Class 1 (DM 26/06/84)

EU

Expanded polyethylene support:  
Class 2 (EN 14313: 2009 - A1:2013)

## 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, MR



**WELL**

Contributes to credits:  
MATERIALS, COMMUNITY, INNOVATION

**BREEAM®**

**BREEAM**

Contributes to credits:  
MAN

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request

# PS05L PlenuSan™

Plenum with a protective film with antibacterial and antimycotic action and side outlet for continuous linear diffusers.

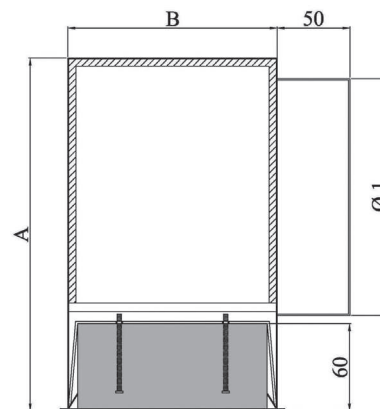


## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel coupled with insulating material coated with sanitized film.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

## APPLICATION

The plenum P05 is suitable for installation on diffusers with adjustable deflectors. It is made of galvanized steel. It can be coated with insulating material and be equipped with an equalizer and calibration slide gate with opening and closing pin. The inlet is positioned on the side of the plenum.



## TECHNICAL DATA - PLENUM SIZE

	1 SLOT	2 SLOTS	3 SLOTS	4 SLOTS
A [mm]	200	240	240	285
B [mm]	59	102	145	189
Ø 1 [mm]	125	160	160	200

## TECHNICAL DATA - PLENUM INLET

STANDARD LENGTH [mm]	INLET NR. [n.]	SLOT NR. [n.]	INLET Ø [mm]
800	1	1	125
	1	2	160
	1	3	160
	1	4	200

## TECHNICAL DATA - PLENUM INLET

STANDARD LENGTH [mm]	INLET NR. [n.]	SLOT NR. [n.]	INLET Ø [mm]
1000	1	1	125
	1	2	160
	1	3	160
	1	4	200
1500	2	1	125
	2	2	160
	2	3	160
	2	4	200
2000	2	1	125
	2	2	160
	2	3	160
	2	4	200

## CERTIFICATIONS

### SANITIZATION



#### SANITIZED TECHNOLOGY

PlenuSan™ is produced by coupling the new generation polyolefin film inside the plenum inner surfaces with the addition of the "Antibacterial Sanitized" active ingredient capable of reducing the microbial and bacterial load before being distributed inside the indoor spaces.



IT

Expanded polyethylene support:  
Class 1 (DM 26/06/84)

EU

Expanded polyethylene support:  
Class 2 (EN 14313: 2009 - A1:2013)

## 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, MR



**WELL**

Contributes to credits:  
MATERIALS, COMMUNITY, INNOVATION

**BREEAM**®

**BREEAM**

Contributes to credits:  
MAN

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers



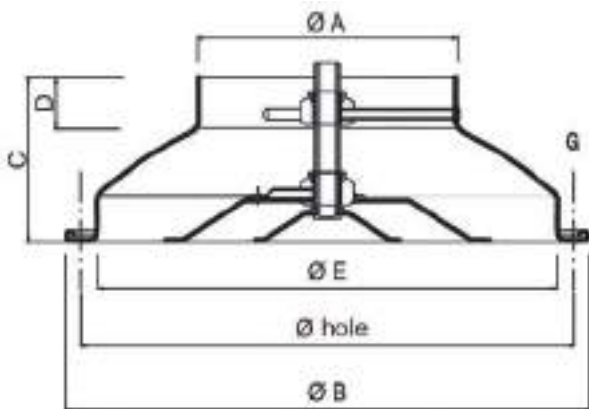
# DCMC

High-induction circular diffuser with adjustable cones made up of concentric truncated cone profiles. Height adjustable by means of an adjustment screw in order to change the direction of the air jet in relation to the required thermal conditions.

- **INSTALLATION HEIGHT::** da 2,7 a 6 m
- **APPLICATION:** room cooling and heating

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



## 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	Ø A [mm]	Ø B [mm]	Ø E [mm]	Ø foro [mm]	C [mm]	D [mm]	G [mm]
DCMC 100	96	250	195	225	85	33	25
DCMC 150	146	330	280	308	90	25	23
DCMC 160	156	330	280	308	90	27	23
DCMC 200	196	445	370	410	115	37	35
DCMC 250	246	535	460	500	135	37	35
DCMC 300	296	655	560	610	170	45	45
DCMC 315	311	655	560	610	170	48	45
DCMC 350	346	763	650	709	195	60	54
DCMC 400	396	793	680	740	195	60	52
DCMC 450	444	843	730	790	195	60	52
DCMC 500	496	893	782	842	195	60	52
DCMC 630	624	1045	929	991	210	55	54

# APPLICATIONS

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

\*on request

## Selection charts

Flow Rate / Pressure Drop  
Noise Level / Air Speed

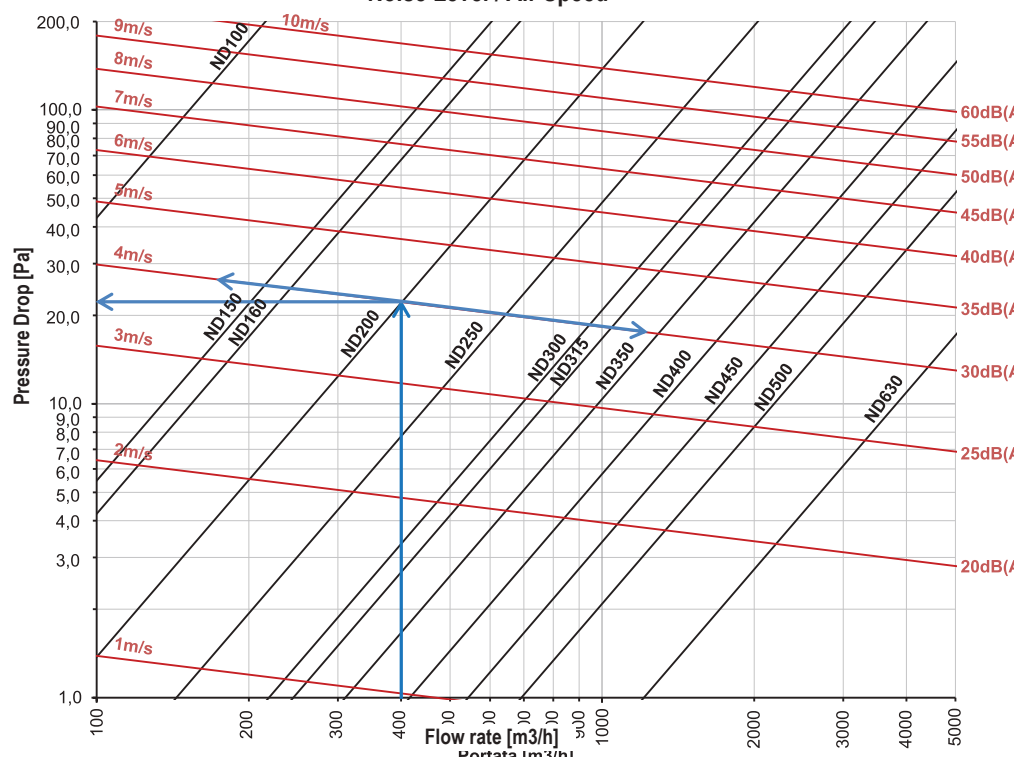


Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

### CALCULATION (input data)

Total Flow Rate	4000 m³/h
Max. Noise Level	30dB(A)
Number of diffusers expected	10pz.
Throw	2,20m

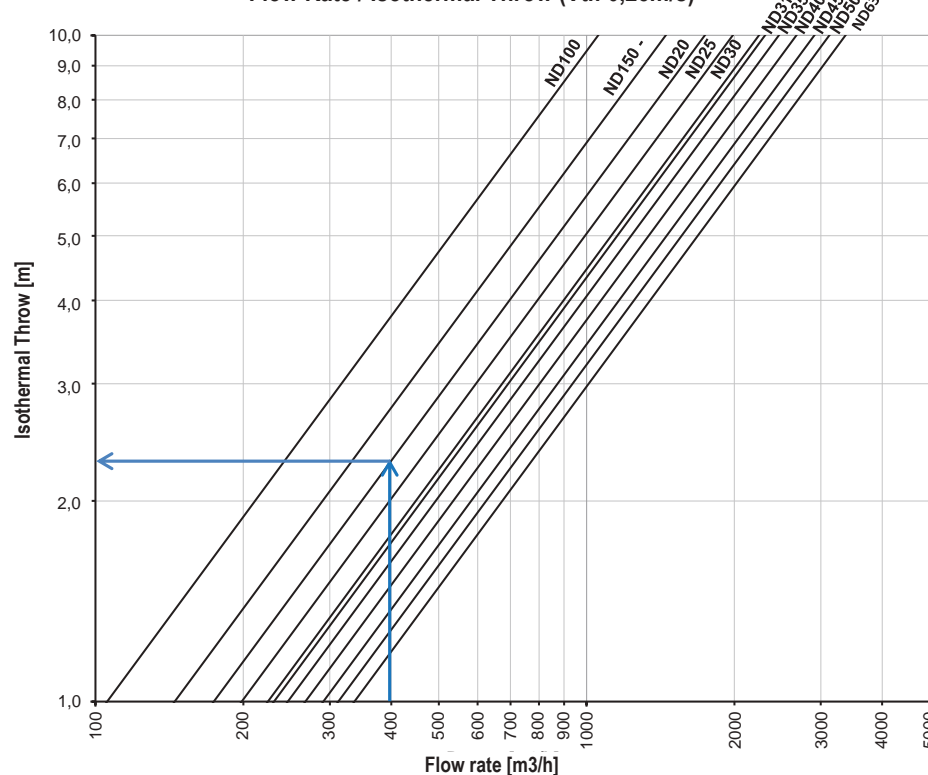
### SELECTION

Model	DCMC 200
Flow Rate	400 m³/h
Pressure Drop	+/- 22Pa
Noise Level	30dB(A)
Air Speed	4,0m/s
Isothermal Throw	+/- 2,20m

Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^\circ\text{C}$  multiply the horizontal throw by 0,85.

Flow Rate / Isothermal Throw (Vt: 0,25m/s)



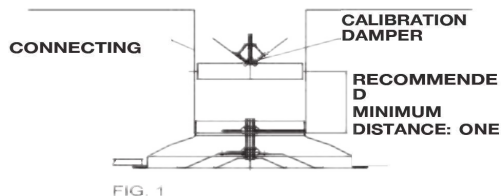
**NOTE:** Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.



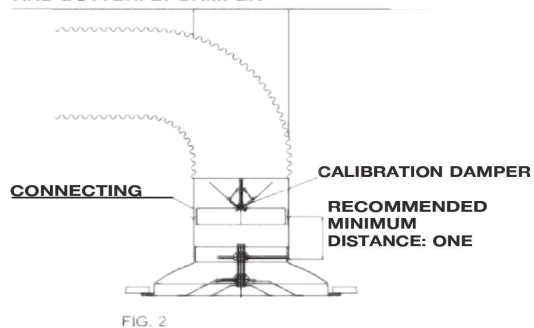
MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m2	Flow Rate	m3/h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m2	Flow Rate	m3/h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m2	Flow Rate	m3/h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m2	Flow Rate	m3/h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m2	Flow Rate	m3/h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>300</b> Ak: 0,0656m2	Flow Rate	m3/h	236	473	709	945	1181	1418	1654	1890	2127	2363
	Pressure Drop	Pa	1,2	4,6	10,5	18,6	29,1	41,8	57,0	74,4	94,1	116,2
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>315</b> Ak: 0,0726m2	Flow Rate	m3/h	262	523	785	1046	1308	1569	1831	2092	2354	2615
	Pressure Drop	Pa	1,1	4,6	10,3	18,2	28,5	41,1	55,9	73,0	92,4	114,0
	Horizontal Throw Vt 0,25	mt	1,1	2,3	3,4	4,5	5,7	6,8	7,9	9,1	10,2	11,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>350</b> Ak: 0,0904m2	Flow Rate	m3/h	325	651	976	1302	1627	1953	2278	2603	2929	3254
	Pressure Drop	Pa	1,1	4,4	9,9	17,6	27,5	39,6	53,8	70,3	89,0	109,9
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,6	11,9	13,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>400</b> Ak: 0,1175m2	Flow Rate	m3/h	423	846	1269	1692	2116	2539	2962	3385	3808	4231
	Pressure Drop	Pa	1,0	4,1	9,3	16,5	25,8	37,2	50,6	66,1	83,7	103,3
	Horizontal Throw Vt 0,25	mt	1,6	3,2	4,7	6,3	7,9	9,5	11,1	12,7	14,2	15,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>450</b> Ak: 0,1500m2	Flow Rate	m3/h	540	1080	1620	2160	2700	3240	3780	4320	4860	5400
	Pressure Drop	Pa	1,0	4,0	8,9	15,8	24,7	35,6	48,4	63,2	80,0	98,8
	Horizontal Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>500</b> Ak: 0,0059m2	Flow Rate	m3/h	671	1342	2013	2684	3355	4026	4697	5368	6039	6710
	Pressure Drop	Pa	0,9	3,8	8,5	15,0	23,5	33,8	46,0	60,1	76,1	93,9
	Horizontal Throw Vt 0,25	mt	2,1	4,3	6,4	8,6	10,7	12,9	15,0	17,2	19,3	21,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>630</b> Ak: 0,2994m2	Flow Rate	m3/h	1078	2156	3233	4311	5389	6467	7545	8622	9700	10778
	Pressure Drop	Pa	0,8	3,2	7,1	12,7	19,9	28,6	38,9	50,8	64,3	79,4
	Horizontal Throw Vt 0,25	mt	3,2	6,4	9,6	12,8	16,0	19,2	22,4	25,6	28,8	32,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

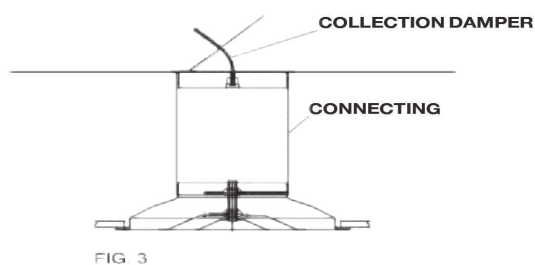
## INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



## INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



## INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser.

It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (DI) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

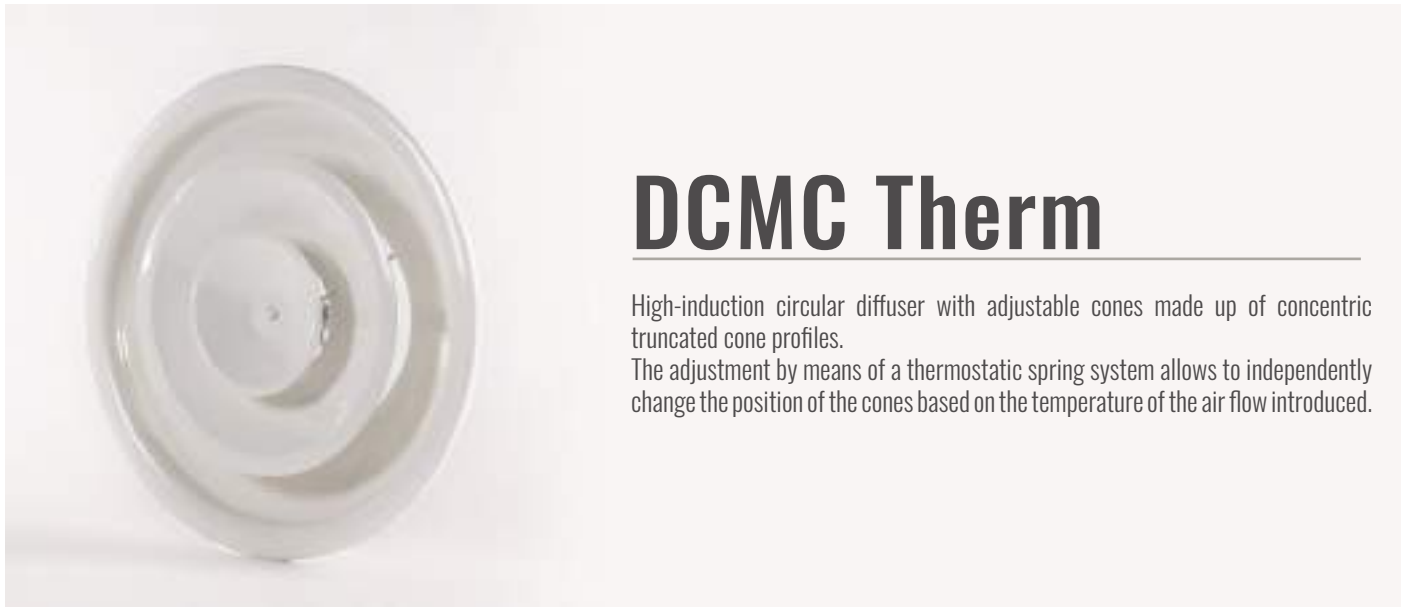
- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



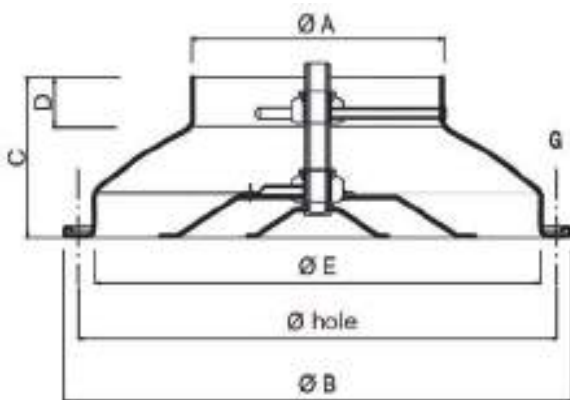
# DCMC Therm

High-induction circular diffuser with adjustable cones made up of concentric truncated cone profiles.

The adjustment by means of a thermostatic spring system allows to independently change the position of the cones based on the temperature of the air flow introduced.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



## GREEN BUILDING

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**LEED**

Contributes to credits:  
IP, EA, MR, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
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	Ø A [mm]	Ø B [mm]	Ø E [mm]	Ø foro [mm]	C [mm]	D [mm]	G [mm]
DCMC 100	96	250	195	225	85	33	25
DCMC 150	146	330	280	308	90	25	23
DCMC 160	156	330	280	308	90	27	23
DCMC 200	196	445	370	410	115	37	35
DCMC 250	246	535	460	500	135	37	35
DCMC 300	296	655	560	610	170	45	45
DCMC 315	311	655	560	610	170	48	45
DCMC 350	346	763	650	709	195	60	54
DCMC 400	396	793	680	740	195	60	52
DCMC 450	444	843	730	790	195	60	52
DCMC 500	496	893	782	842	195	60	52
DCMC 630	624	1045	929	991	210	55	54

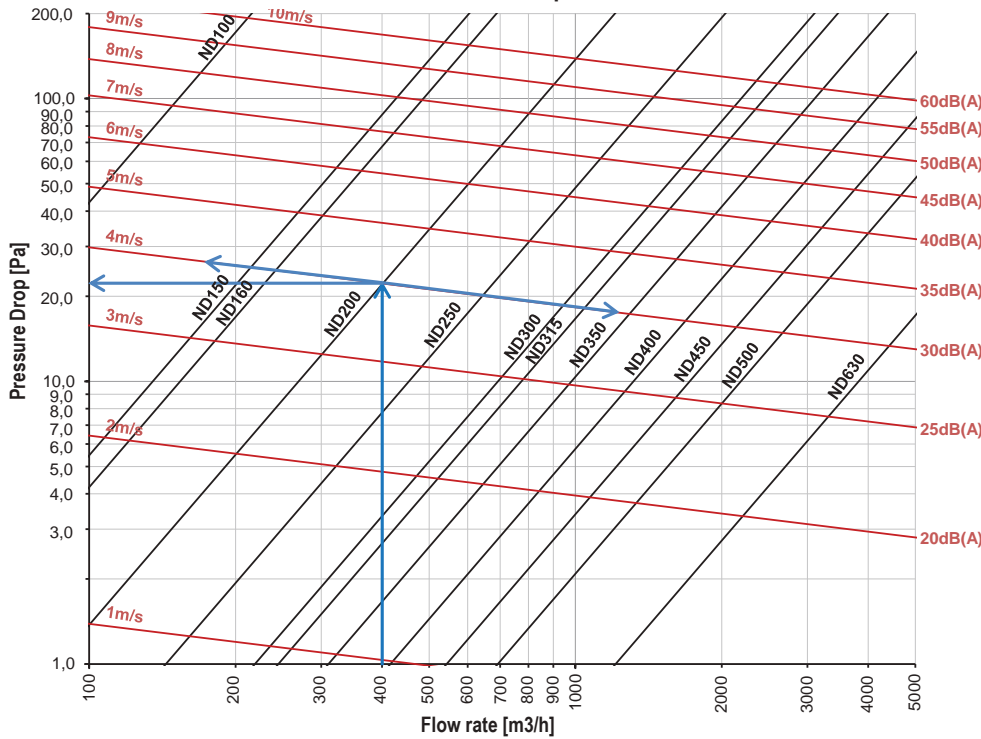
## APPLICATIONS

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

\*on request

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**

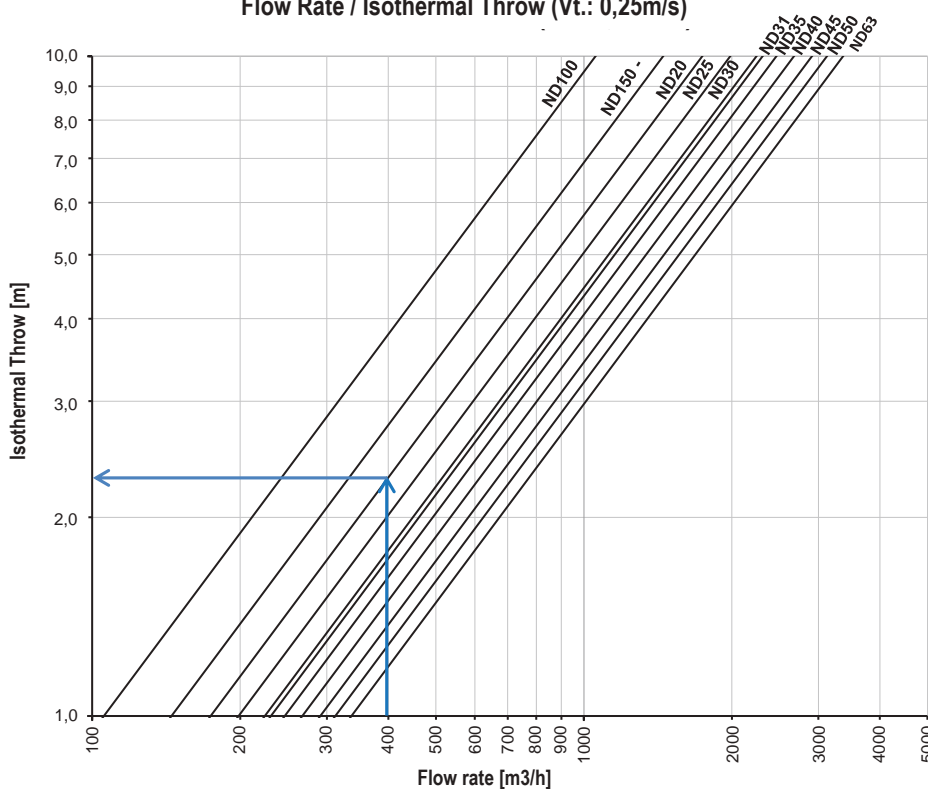


### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

CALCULATION (input data)	
Total Flow Rate	4000 m <sup>3</sup> /h
Max. Noise Level	30dB(A)
Number of diffusers expected	10pz.
Throw	2,20m

**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



SELECTION	
Model	DCMC 200
Flow Rate	400 m <sup>3</sup> /h
Pressure Drop	+/- 22Pa
Noise Level	30dB(A)
Air Speed	4,0m/s
Isothermal Throw	+/- 2,20m

### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

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

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m2	Flow Rate	m3/h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m2	Flow Rate	m3/h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m2	Flow Rate	m3/h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m2	Flow Rate	m3/h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m2	Flow Rate	m3/h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>300</b> Ak: 0,0656m2	Flow Rate	m3/h	236	473	709	945	1181	1418	1654	1890	2127	2363
	Pressure Drop	Pa	1,2	4,6	10,5	18,6	29,1	41,8	57,0	74,4	94,1	116,2
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>315</b> Ak: 0,0726m2	Flow Rate	m3/h	262	523	785	1046	1308	1569	1831	2092	2354	2615
	Pressure Drop	Pa	1,1	4,6	10,3	18,2	28,5	41,1	55,9	73,0	92,4	114,0
	Horizontal Throw Vt 0,25	mt	1,1	2,3	3,4	4,5	5,7	6,8	7,9	9,1	10,2	11,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>350</b> Ak: 0,0904m2	Flow Rate	m3/h	325	651	976	1302	1627	1953	2278	2603	2929	3254
	Pressure Drop	Pa	1,1	4,4	9,9	17,6	27,5	39,6	53,8	70,3	89,0	109,9
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,6	11,9	13,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>400</b> Ak: 0,1175m2	Flow Rate	m3/h	423	846	1269	1692	2116	2539	2962	3385	3808	4231
	Pressure Drop	Pa	1,0	4,1	9,3	16,5	25,8	37,2	50,6	66,1	83,7	103,3
	Horizontal Throw Vt 0,25	mt	1,6	3,2	4,7	6,3	7,9	9,5	11,1	12,7	14,2	15,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>450</b> Ak: 0,1500m2	Flow Rate	m3/h	540	1080	1620	2160	2700	3240	3780	4320	4860	5400
	Pressure Drop	Pa	1,0	4,0	8,9	15,8	24,7	35,6	48,4	63,2	80,0	98,8
	Horizontal Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>500</b> Ak: 0,0059m2	Flow Rate	m3/h	671	1342	2013	2684	3355	4026	4697	5368	6039	6710
	Pressure Drop	Pa	0,9	3,8	8,5	15,0	23,5	33,8	46,0	60,1	76,1	93,9
	Horizontal Throw Vt 0,25	mt	2,1	4,3	6,4	8,6	10,7	12,9	15,0	17,2	19,3	21,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>630</b> Ak: 0,2994m2	Flow Rate	m3/h	1078	2156	3233	4311	5389	6467	7545	8622	9700	10778
	Pressure Drop	Pa	0,8	3,2	7,1	12,7	19,9	28,6	38,9	50,8	64,3	79,4
	Horizontal Throw Vt 0,25	mt	3,2	6,4	9,6	12,8	16,0	19,2	22,4	25,6	28,8	32,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions



## Thermostatic System Detail

The self-adjusting system for the central cones is made with harmonic steel springs with a thermostatic effect which allow to correctly relocate the central body of the diffuser based on the temperature of the air introduced to obtain the appropriate throw.

### INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER

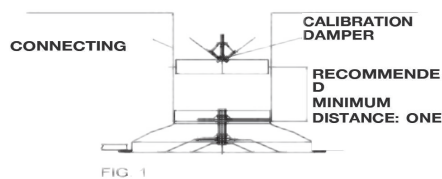


FIG. 1

### INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER

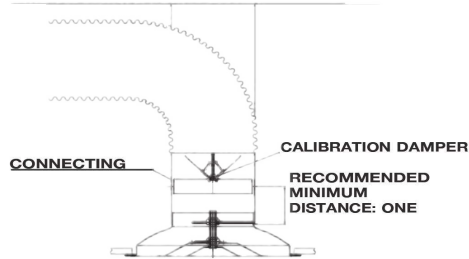


FIG. 2

### INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER

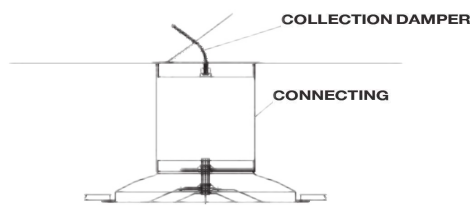


FIG. 3

Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (D) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



# DCMQ

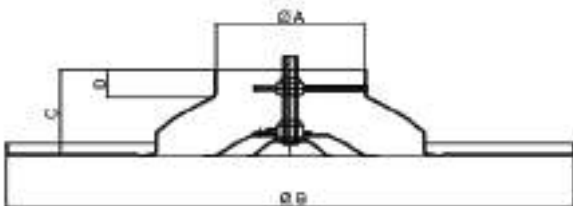
High-induction circular diffuser with adjustable cones made up of concentric truncated cone profiles on a square panel, suitable for installation on false ceilings with 600x600 panels. Height adjustable by means of an adjustment screw in order to change the direction of the air jet in relation to the required thermal conditions.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck

## 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**<sup>®</sup>

**BREEAM**

Contributes to credits:  
MAN, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	C [mm]	D [mm]
DCMQ 100	96	595x595	85	33
DCMQ 150	146	595x595	90	23
DCMQ 160	156	595x595	90	28
DCMQ 200	196	595x595	115	37
DCMQ 250	246	595x595	135	37
DCMQ 300	296	595x595	115	45
DCMQ 315	311	595x595	115	44

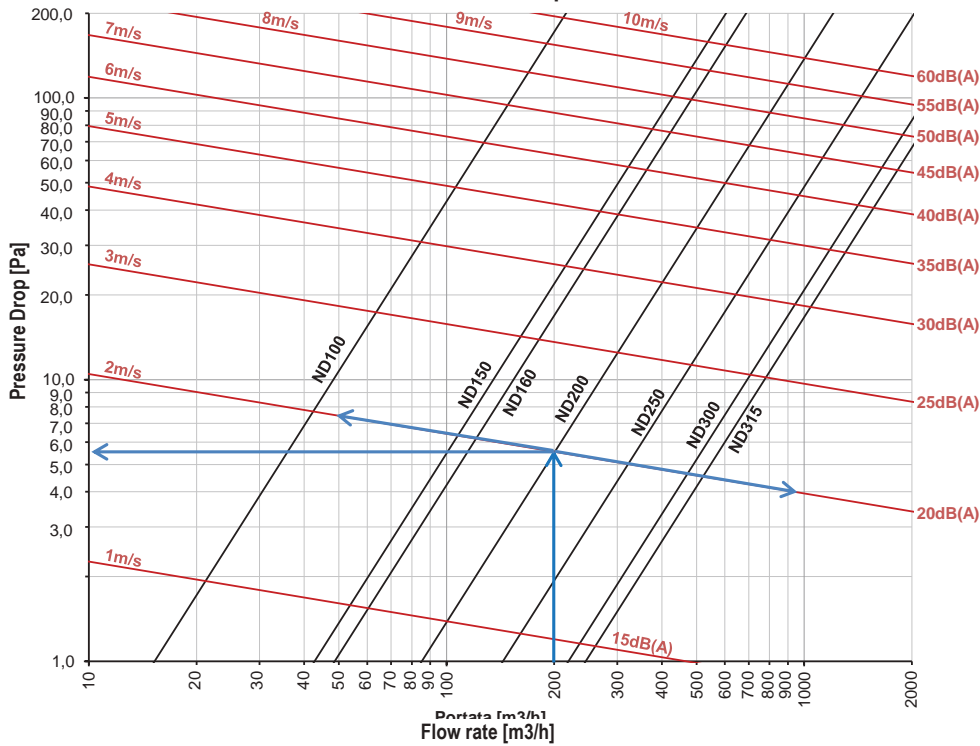
# APPLICATIONS

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

\*on request

## Selection charts

Flow Rate / Pressure Drop  
Noise Level / Air Speed



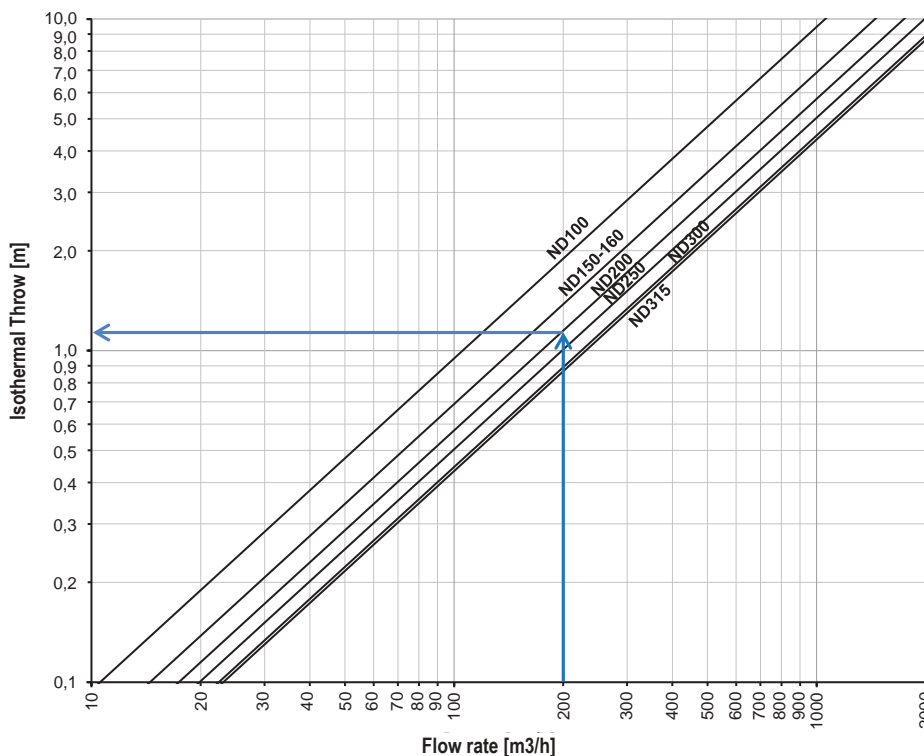
### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

#### CALCULATION (input data)

Total Flow Rate	2000 m <sup>3</sup> /h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

Flow Rate / Isothermal Throw (Vt.: 0,25m/s)



#### SELECTION

Model	DCMQ 200
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^\circ\text{C}$  multiply the horizontal throw by 0,85.

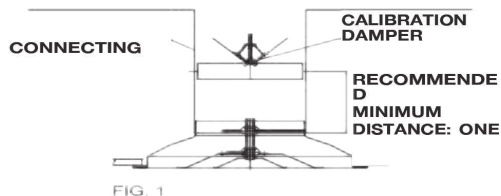
**NOTE:** Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.



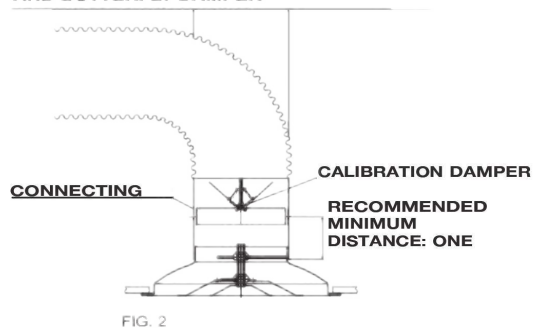
MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>300</b> Ak: 0,0656m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	236	473	709	945	1181	1418	1654	1890	2127	2363
	Pressure Drop	Pa	1,2	4,6	10,5	18,6	29,1	41,8	57,0	74,4	94,1	116,2
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>315</b> Ak: 0,0726m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	262	523	785	1046	1308	1569	1831	2092	2354	2615
	Pressure Drop	Pa	1,1	4,6	10,3	18,2	28,5	41,1	55,9	73,0	92,4	114,0
	Horizontal Throw Vt 0,25	mt	1,1	2,3	3,4	4,5	5,7	6,8	7,9	9,1	10,2	11,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

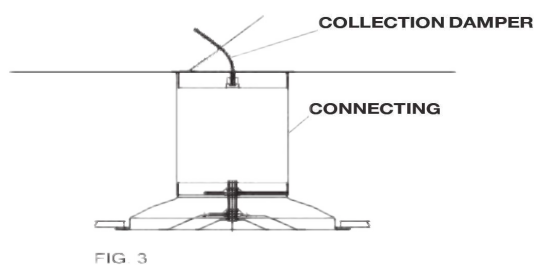
## INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



## INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



## INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser.

It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (DI) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

## Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

## Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

## Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



# DCMQ Therm

High-induction circular diffuser with adjustable cones made up of concentric truncated cone profiles on a square panel, suitable for installation on false ceilings with 600x600 panels.

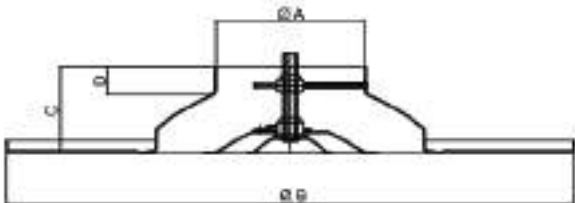
The adjustment by means of a thermostatic spring system allows to independently change the position of the cones based on the temperature of the air flow introduced.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck

## 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, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM®**

**BREEAM**










Contributes to credits:  
MAN, HEA, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	C [mm]	D [mm]
DCMQ 100	96	595x595	85	33
DCMQ 150	146	595x595	90	23
DCMQ 160	156	595x595	90	28
DCMQ 200	196	595x595	115	37
DCMQ 250	246	595x595	135	37
DCMQ 300	296	595x595	115	45
DCMQ 315	311	595x595	115	44

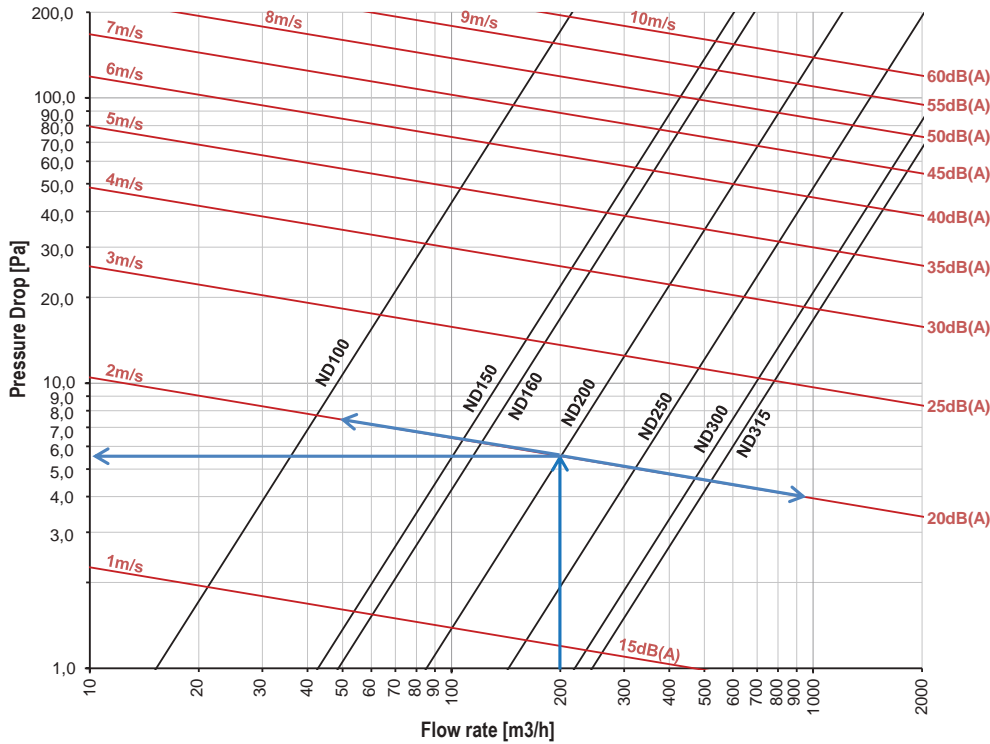
## APPLICATIONS

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

\*on request

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**



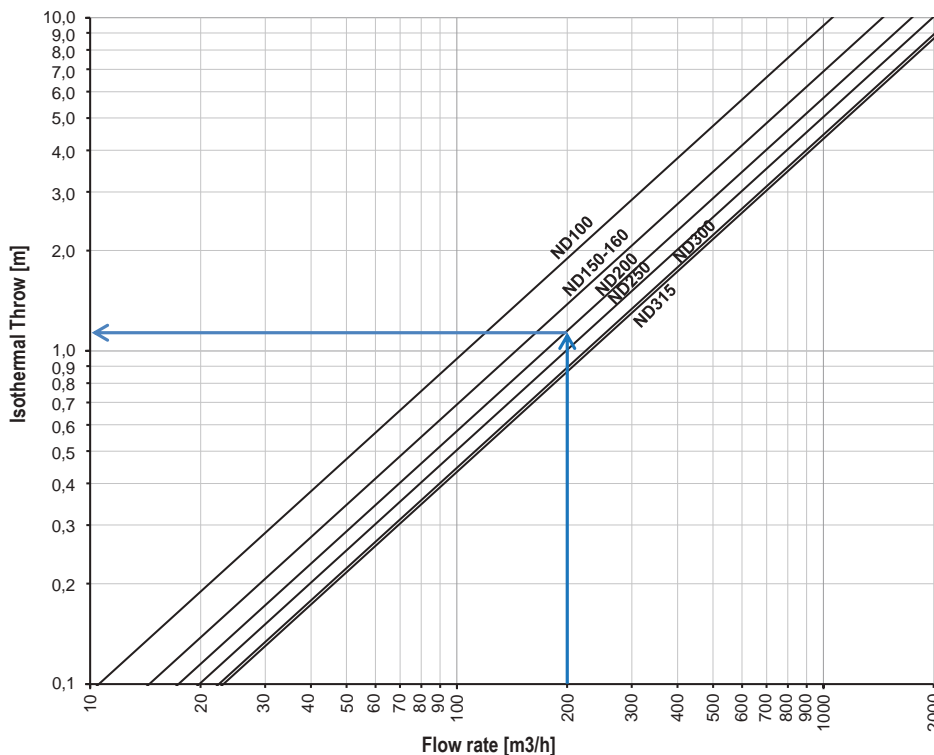
### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

#### CALCULATION (input data)

Total Flow Rate	2000 m³/h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



#### SELECTION

Model	DCMQ 200
Flow Rate	200 m³/h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^\circ\text{C}$  multiply the horizontal throw by 0,85.

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

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>300</b> Ak: 0,0656m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	236	473	709	945	1181	1418	1654	1890	2127	2363
	Pressure Drop	Pa	1,2	4,6	10,5	18,6	29,1	41,8	57,0	74,4	94,1	116,2
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>315</b> Ak: 0,0726m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	262	523	785	1046	1308	1569	1831	2092	2354	2615
	Pressure Drop	Pa	1,1	4,6	10,3	18,2	28,5	41,1	55,9	73,0	92,4	114,0
	Horizontal Throw Vt 0,25	mt	1,1	2,3	3,4	4,5	5,7	6,8	7,9	9,1	10,2	11,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions



## Thermostatic System Detail

The self-adjusting system for the central cones is made with harmonic steel springs with a thermostatic effect which allow to correctly relocate the central body of the diffuser based on the temperature of the air introduced to obtain the appropriate throw.

Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

### INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER

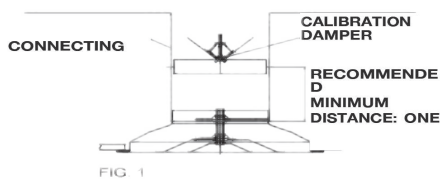


FIG. 1

### INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER

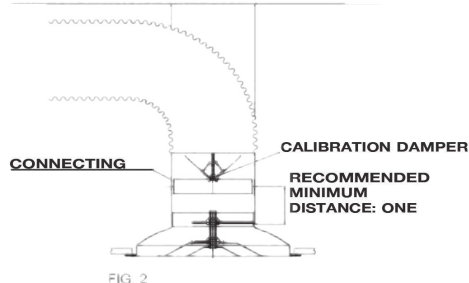


FIG. 2

### INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER

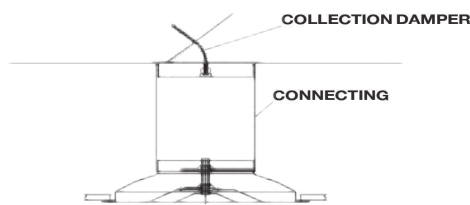


FIG. 3

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (D) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



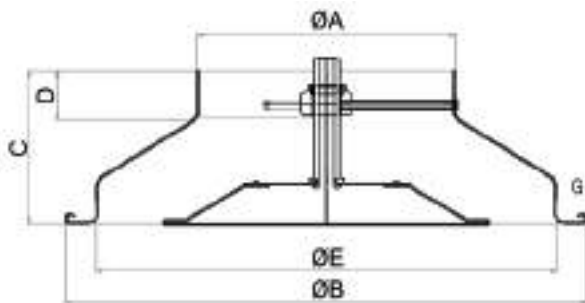
# DCSC

Circular diffuser with adjustable cones made up of concentric truncated cone profiles, adjustable in height by means of a screw in order to change the direction of the air jet in relation to the required thermal conditions.

The internal cone is closed with a flat panel that gives the diffuser a pleasant aesthetic appearance without penalizing the functional specifications.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



## 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**<sup>®</sup>

**BREEAM**










Contributes to credits:  
MAN, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø E [mm]	Ø HOLE [mm]	C [mm]	D [mm]	G [mm]
DCSC 100	96	250	195	225	85	33	25
DCSC 150	146	330	280	308	90	25	23
DCSC 160	156	330	280	308	90	27	23
DCSC 200	196	445	370	410	115	37	35
DCSC 250	246	535	460	500	135	37	35

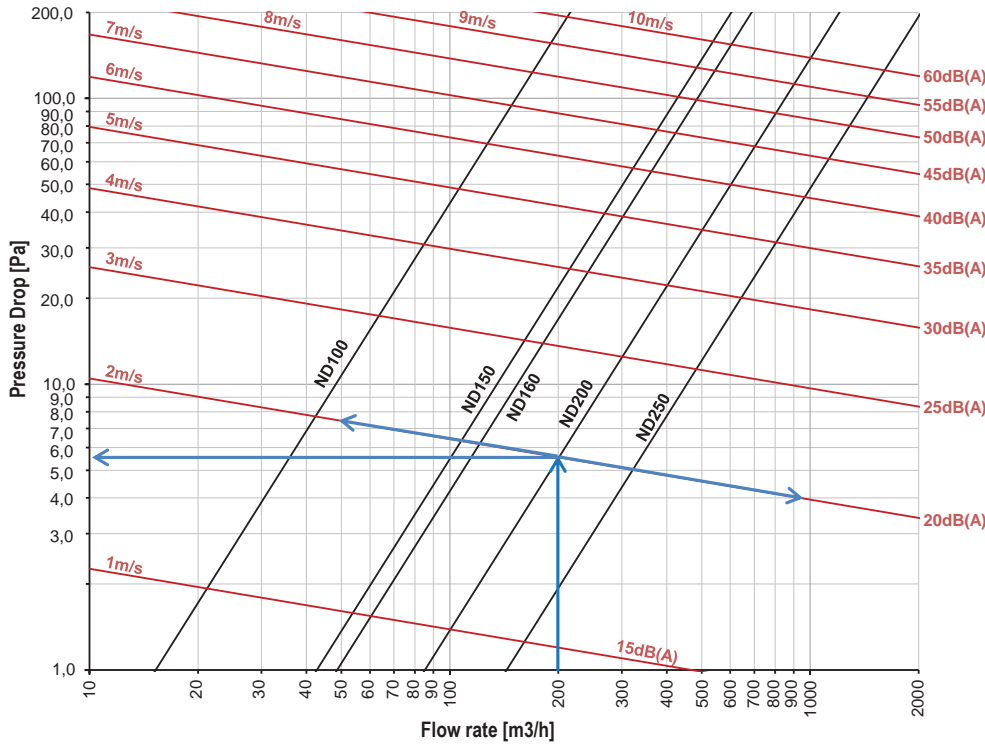
## APPLICATIONS

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

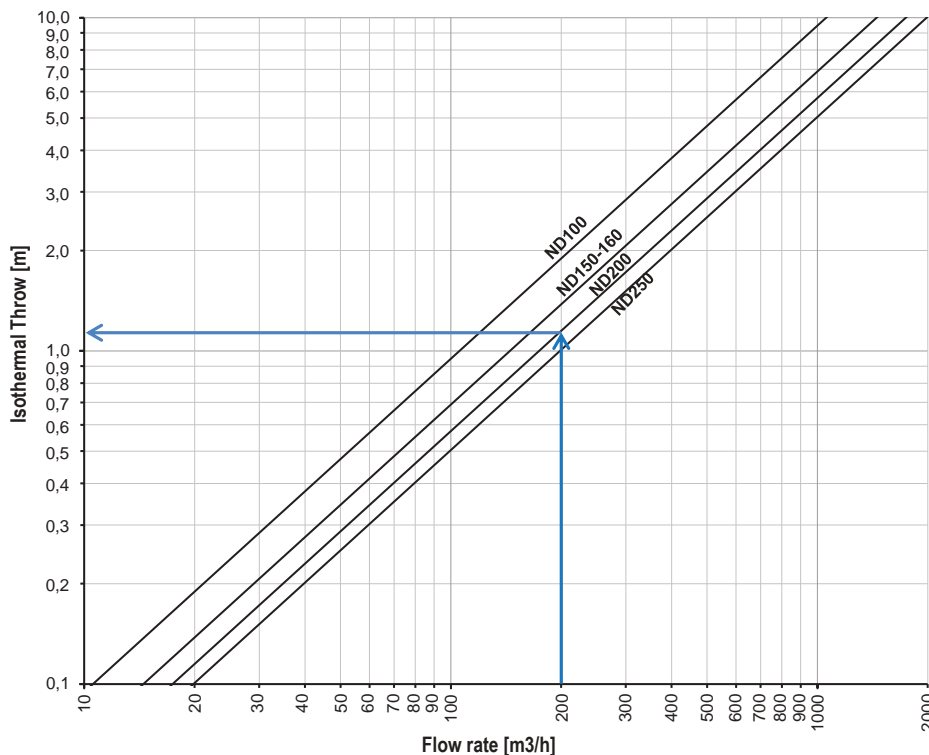
\*on request

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**



**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



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

### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

CALCULATION (input data)	
Total Flow Rate	2000 m <sup>3</sup> /h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

SELECTION	
Model	DCSC 200
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

### Diagram 2

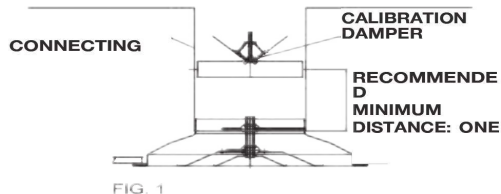
The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.



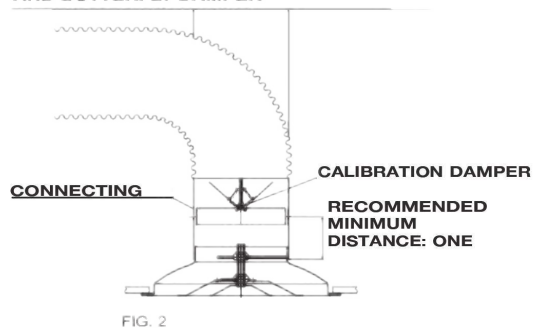
MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,W5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

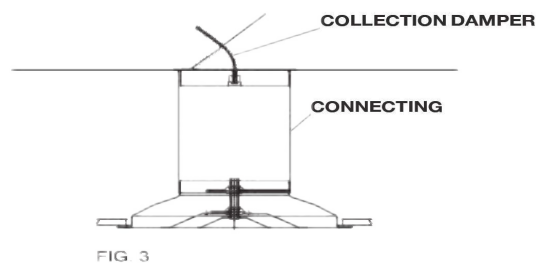
## INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



## INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



## INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (DI) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



# DCSC Therm

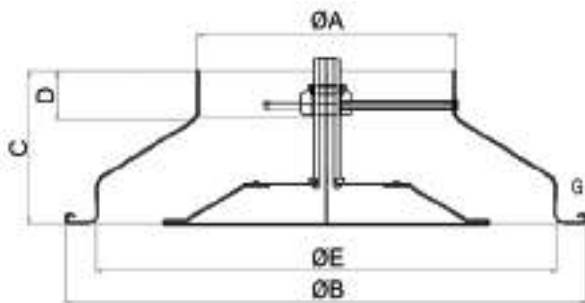
Circular diffuser with adjustable cones made up of concentric truncated cone profiles, adjustable in height by means of a screw in order to change the direction of the air jet in relation to the required thermal conditions.

The internal cone is closed with a flat panel that gives the diffuser a pleasant aesthetic appearance without penalizing the functional specifications.

The adjustment by means of a thermostatic spring system allows to independently change the position of the cones based on the temperature of the air flow introduced.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



## 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, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM**<sup>®</sup>

**BREEAM**










Contributes to credits:  
MAN, HEA, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø E [mm]	Ø FORO [mm]	C [mm]	D [mm]	G [mm]
DCSC 100	96	250	195	225	85	33	25
DCSC 150	146	330	280	308	90	25	23
DCSC 160	156	330	280	308	90	27	23
DCSC 200	196	445	370	410	115	37	35
DCSC 250	246	535	460	500	135	37	35

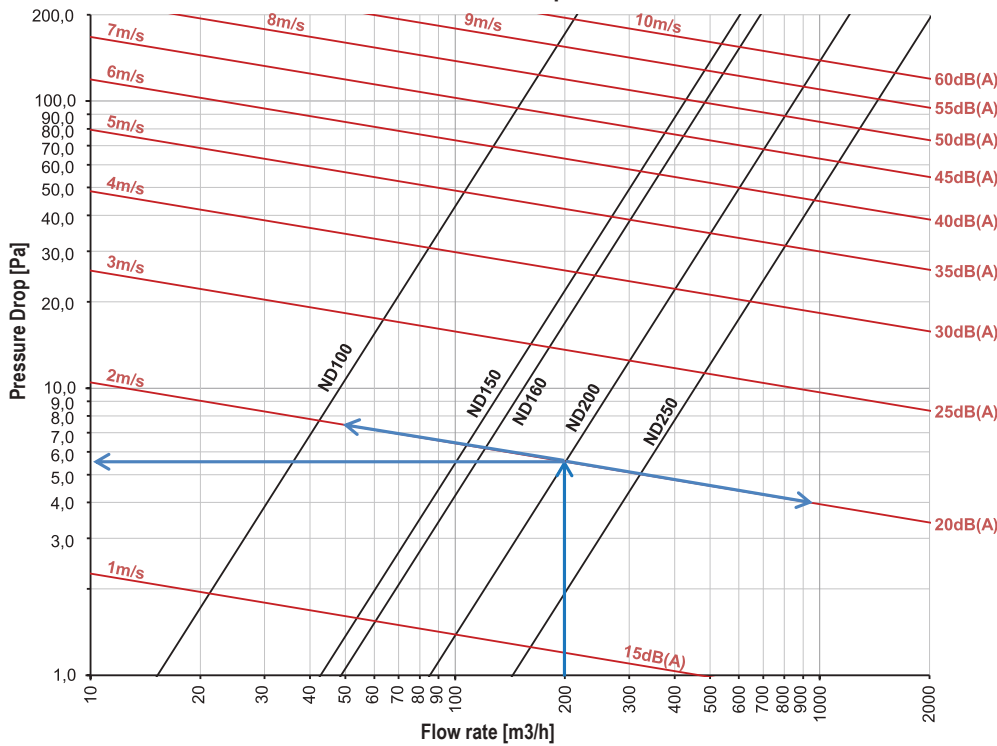
## APPLICATIONS

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

\*on request

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**



### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

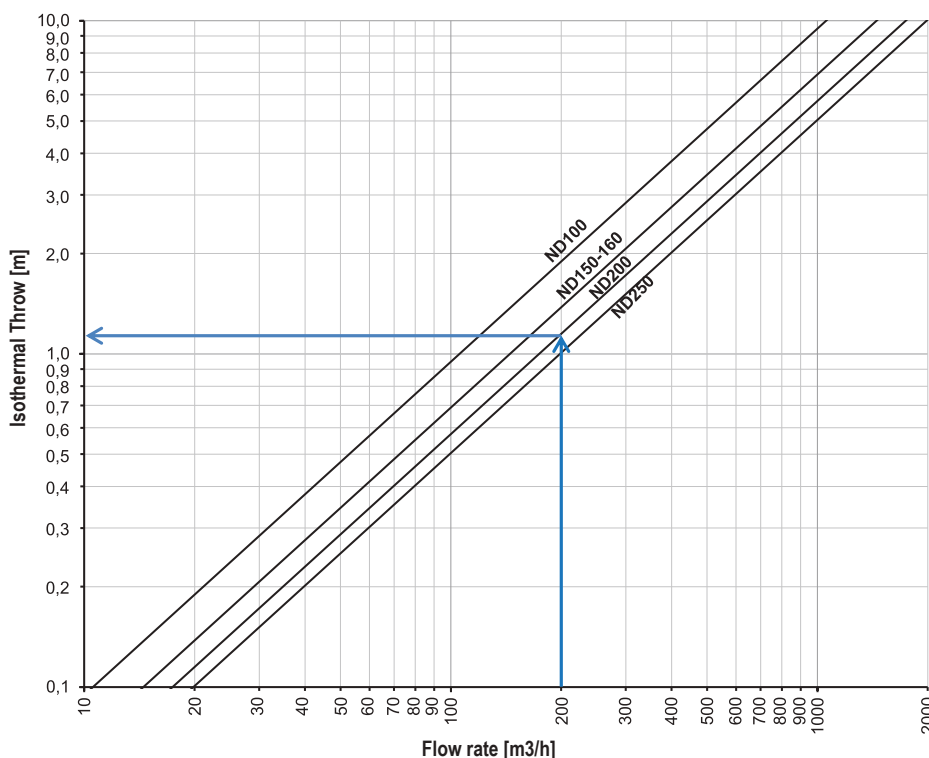
#### CALCULATION (input data)

Total Flow Rate	2000 m <sup>3</sup> /h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

#### SELECTION

Model	DCSC 200
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions.

For  $\Delta T < 10^\circ\text{C}$  multiply the horizontal throw by 0,85.

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

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,W5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

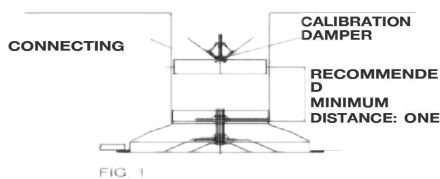


## Thermostatic System Detail

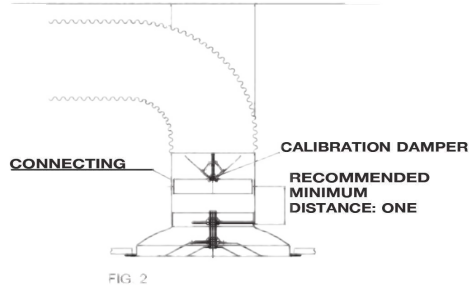
The self-adjusting system for the central cones is made with harmonic steel springs with a thermostatic effect which allow to correctly relocate the central body of the diffuser based on the temperature of the air introduced to obtain the appropriate throw.

Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

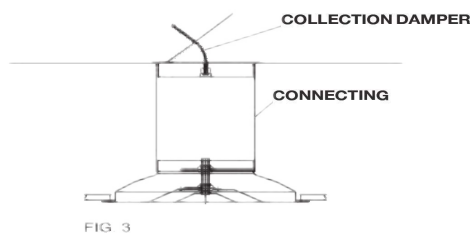
### INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



### INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



### INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (D) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



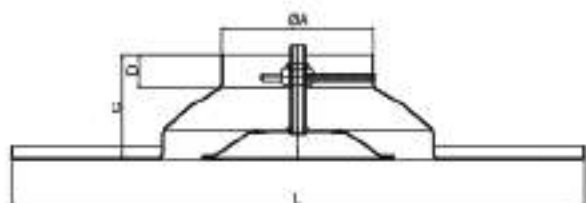
# DCSQ

Circular diffuser with adjustable cones made up of concentric truncated cone profiles on a square panel, suitable for installation on false ceilings with 600x600mm panels.

Height adjustable by means of an adjustment screw in order to change the direction of the air jet in relation to the required thermal conditions.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



## 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**<sup>®</sup>

**BREEAM**










Contributes to credits:  
MAN, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	C [mm]	D [mm]
DCSQ 100	96	595x595	85	33
DCSQ 150	146	595x595	90	23
DCSQ 160	156	595x595	90	28
DCSQ 200	196	595x595	115	37
DCSQ 250	246	595x595	135	37

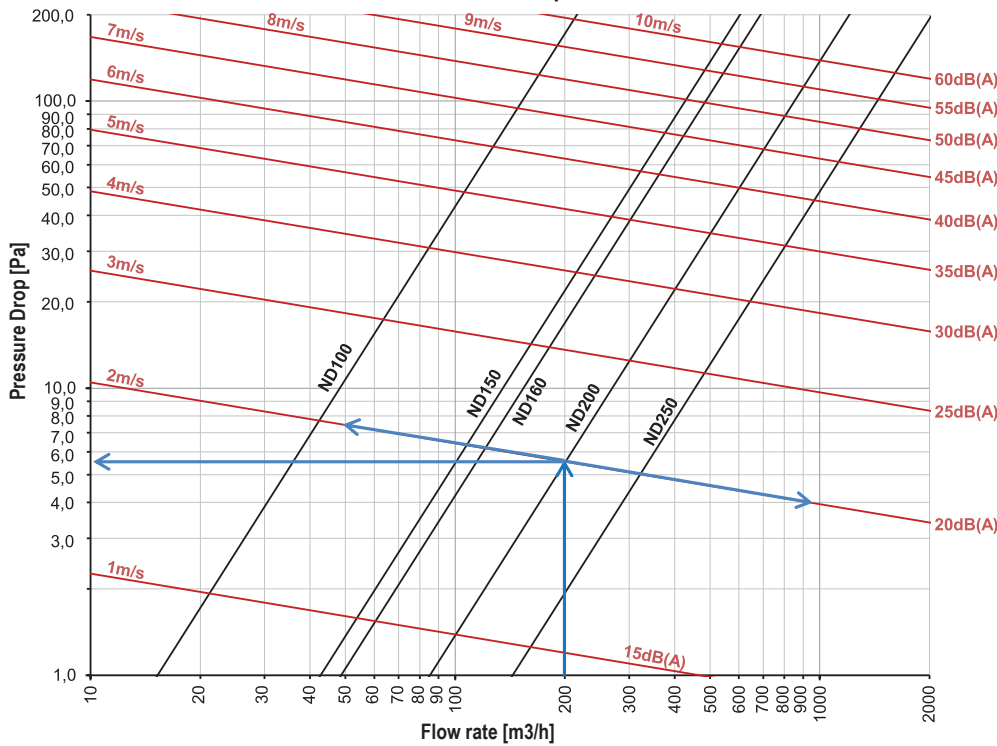
## APPLICATIONS

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

\*su richiesta

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**



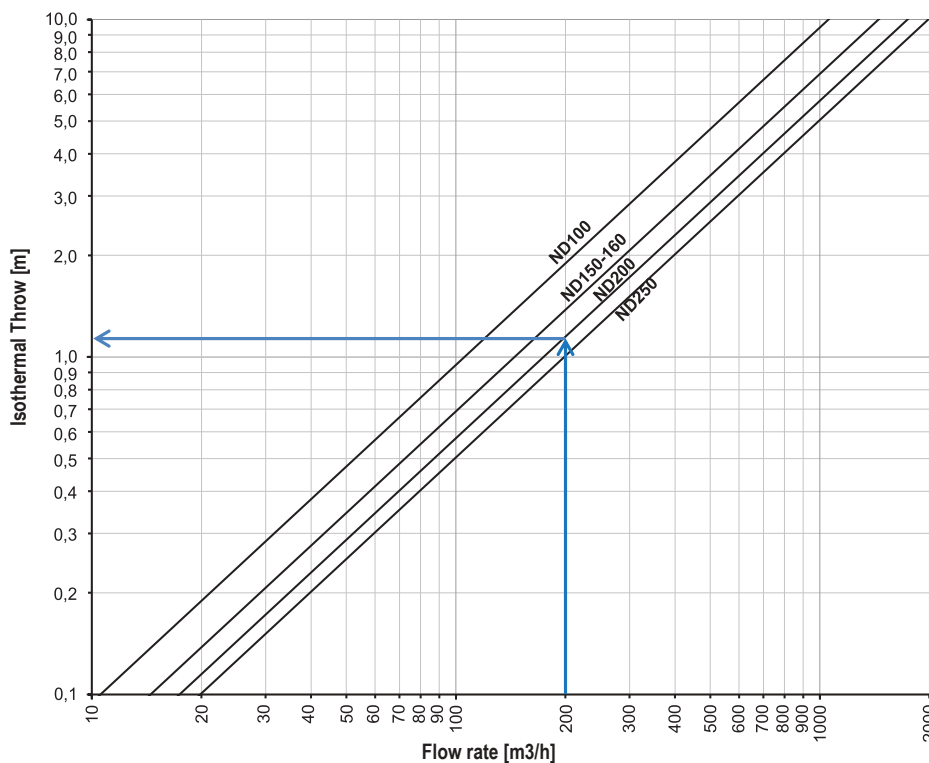
#### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

#### CALCULATION (input data)

Total Flow Rate	2000 m³/h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



#### SELECTION

Model	DCSQ 200
Flow Rate	200 m³/h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

#### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions.

For  $\Delta T < 10^\circ\text{C}$  multiply the horizontal throw by 0,85.

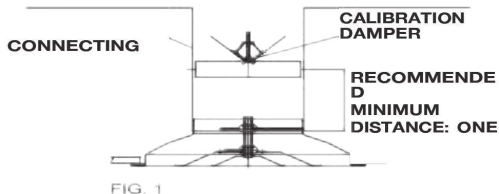
**NOTE:** Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.



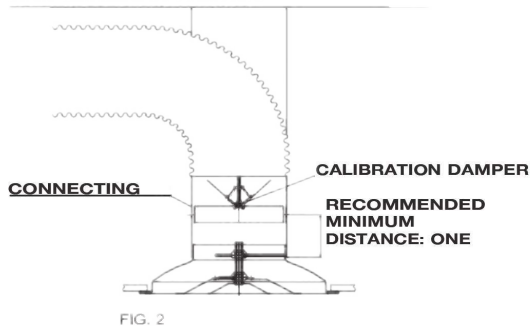
MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

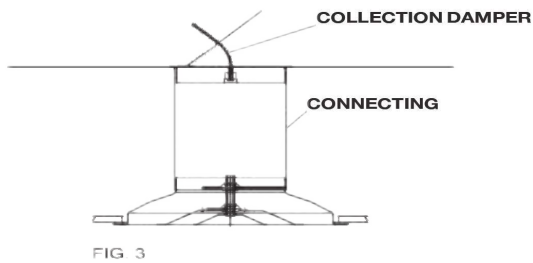
## INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



## INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



## INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (DI) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

### Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

### Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

### Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



# DCSQ Therm

Circular diffuser with adjustable cones made up of concentric truncated cone profiles on a square panel, suitable for installation on false ceilings with 600x600mm panels.

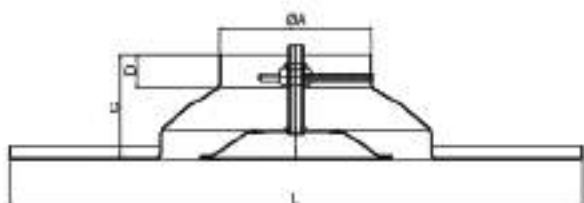
The adjustment by means of a thermostatic spring system allows to independently change the position of the cones based on the temperature of the air flow introduced.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
2,7 to 6 m	Room cooling and heating	Aluminium and steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck

## 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, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM**<sup>®</sup>

**BREEAM**










Contributes to credits:  
MAN, HEA, WST

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

## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	C [mm]	D [mm]
DCSQ 100	96	595X595	85	33
DCSQ 150	146	595X595	90	23
DCSQ 160	156	595X595	90	28
DCSQ 200	196	595X595	115	37
DCSQ 250	246	595X595	135	37

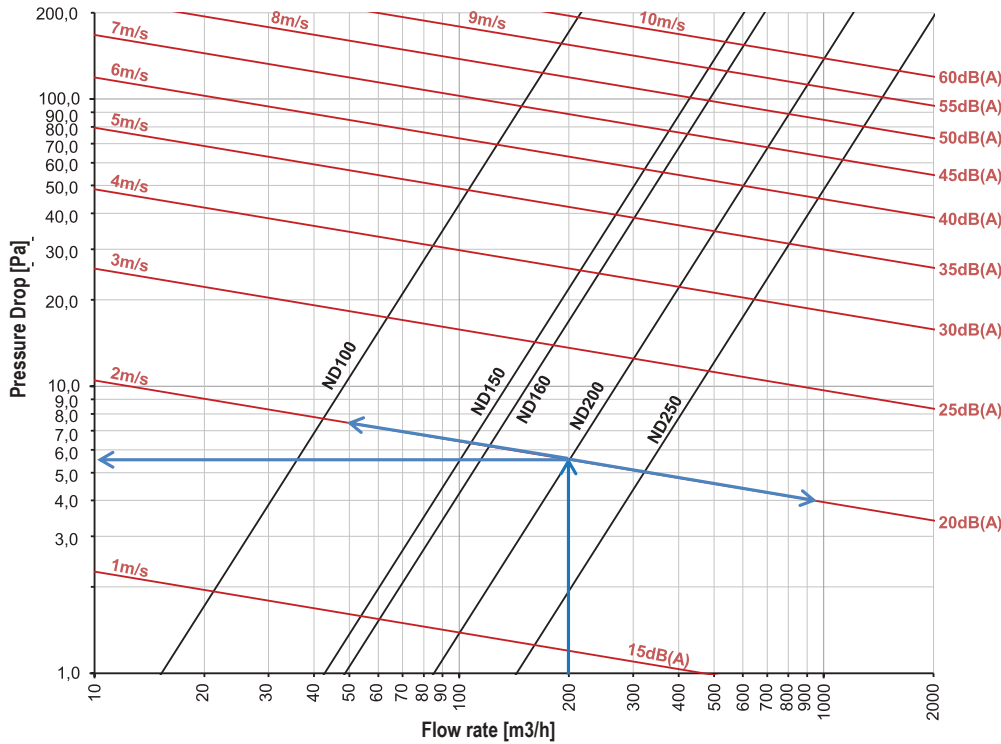
## APPLICATIONS

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

\*on request

### Selection charts

**Flow Rate / Pressure Drop  
Noise Level / Air Speed**



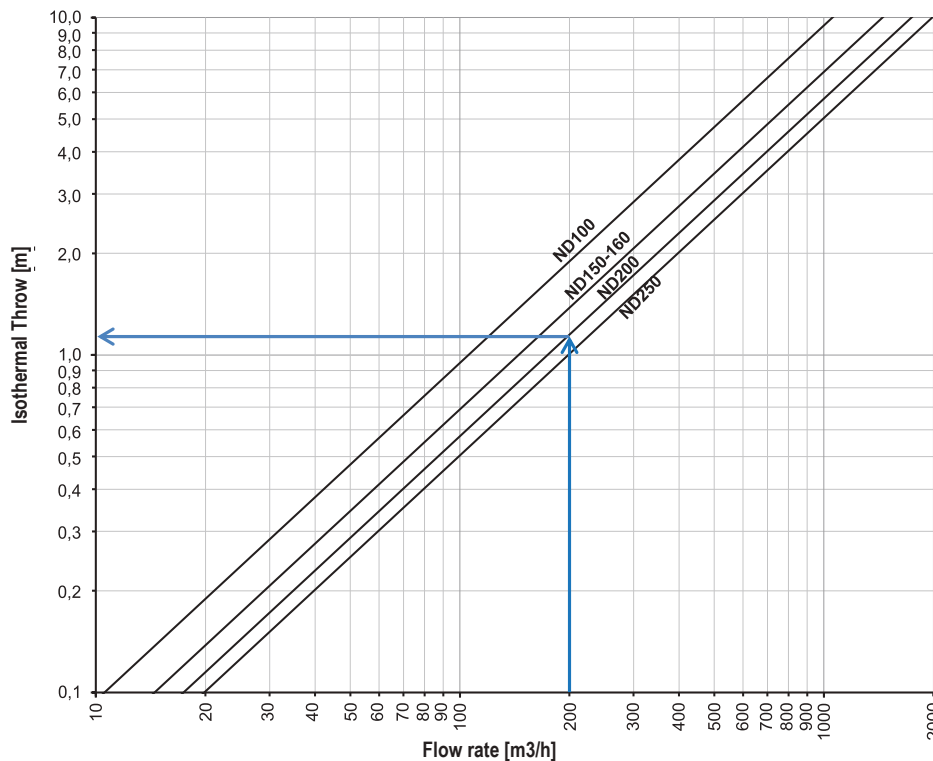
#### Diagram 1

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow.

#### CALCULATION (input data)

Total Flow Rate	2000 m <sup>3</sup> /h
Max. Noise Level	20dB(A)
Number of diffusers expected	10pz.
Throw	1,20m

**Flow Rate / Isothermal Throw (Vt.: 0,25m/s)**



#### SELECTION

Model	DCSQ 200
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 5,5Pa
Noise Level	20dB(A)
Air Speed	2,0m/s
Isothermal Throw	+/- 1,20m

#### Diagram 2

The diagram shows the isothermal launch of the diffuser according to the flow rate with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions.

For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

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

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>100</b> Ak: 0,0059m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	21	42	63	84	105	127	148	169	190	211
	Pressure Drop	Pa	1,9	7,6	17,2	30,6	47,7	68,7	93,6	122,2	154,7	191,0
	Horizontal Throw Vt 0,25	mt	0,2	0,4	0,6	0,8	1,0	1,2	1,4	1,6	1,8	2,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>150</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	268	322	376	429	483	537
	Pressure Drop	Pa	1,6	6,3	14,2	25,2	39,4	56,8	77,3	101,0	127,8	157,7
	Horizontal Throw Vt 0,25	mt	0,4	0,7	1,1	1,5	1,9	2,2	2,6	3,0	3,3	3,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>160</b> Ak: 0,0167m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	60	120	181	241	301	361	421	482	542	602
	Pressure Drop	Pa	1,5	6,1	13,8	24,5	38,3	55,1	75,0	98,0	124,0	153,1
	Horizontal Throw Vt 0,25	mt	0,4	0,8	1,2	1,7	2,1	2,5	2,9	3,3	3,7	4,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>200</b> Ak: 0,0279m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	100	201	301	402	502	602	703	803	904	1004
	Pressure Drop	Pa	1,4	5,5	12,5	22,2	34,7	49,9	68,0	88,8	112,3	138,7
	Horizontal Throw Vt 0,25	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>250</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	323	484	645	806	968	1129	1290	1451	1613
	Pressure Drop	Pa	1,3	5,0	11,3	20,1	31,5	45,3	61,7	80,5	101,9	125,8
	Horizontal Throw Vt 0,25	mt	0,8	1,6	2,4	3,2	4,1	4,9	5,7	6,5	7,3	8,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation height	mt	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation height	mt	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions



## Thermostatic System Detail

The self-adjusting system for the central cones is made with harmonic steel springs with a thermostatic effect which allow to correctly relocate the central body of the diffuser based on the temperature of the air introduced to obtain the appropriate throw.

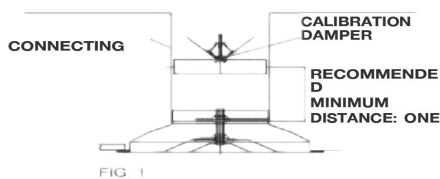
Easy installation, adjustments and maintenance. The intermediate cones are easy to remove by turning the central hollow threaded pin. The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser. It is fastened to the ceiling by means of screws on the diffuser neck.

## Adjustment

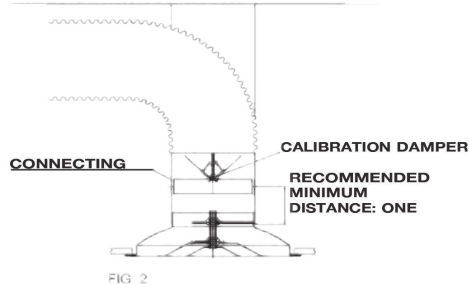
**Central cone in low position:** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area in rooms with an ideal height between 3 and 4 m. With this configuration, you have the best pressure drop, velocity and sound level conditions. The maximum temperature difference (D) between the ambient air and the air flowing from the diffuser to obtain the optimal induction conditions is 12°C.

**Central cone in high position:** optimal position for particularly high rooms up to 6 m and in heating conditions, as you obtain a vertical throw that resists the convective motion of the ambient air.

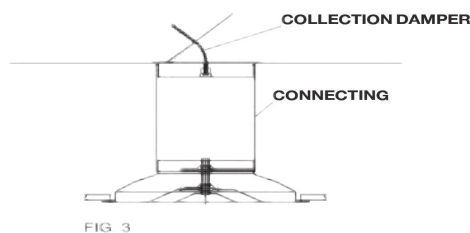
INSTALLATION WITH CONNECTING SLEEVE AND BUTTERFLY DAMPER



INSTALLATION WITH FLEXIBLE HOSE AND BUTTERFLY DAMPER



INSTALLATION WITH CONNECTING SLEEVE AND COLLECTION DAMPER



## Fig. 1 Installation with butterfly damper

- Fit the damper on the connecting sleeve, if possible keeping a distance with respect to the diffuser of one nominal diameter but not less than 5 cm.
- Unscrew the central cones from the diffuser and fasten the external housing on the connecting sleeve.
- Screw the central cones onto the external housing.
- Adjust the internal cones according to the desired diffusion parameters.
- Adjust the damper through the central hole in the threaded bar of the diffuser.

## Fig. 2 Installation on flexible hose with butterfly damper

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fasten the damper on the connecting sleeve.
- Fit the connecting sleeve in the diffuser.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.

## Fig. 3 Installation with connecting sleeve and collection damper

- Fit the damper on the connecting sleeve in proximity of the hole in the main duct and fasten it with screws or rivets.
- Adjust the damper.
- Fasten the diffuser on the connecting sleeve.
- Finally adjust the flow rate by acting on the damper through the central hole in the threaded bar.



# DSR-DSRS

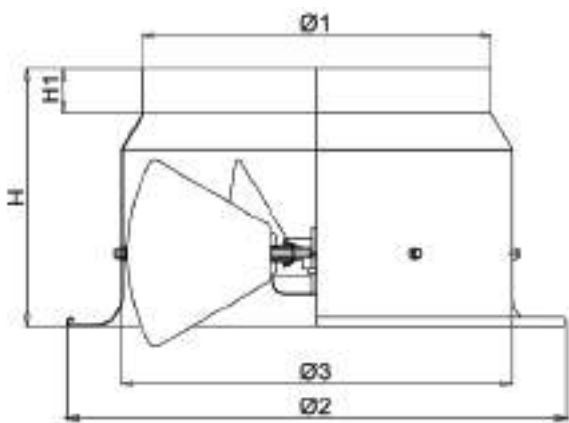
Variable geometry diffuser developed for rooms with high ceilings where a long throw and a high induction ratio are required. Made up of a housing in which individually or simultaneously adjustable deflectors are fitted (if required) in order to change the direction of the air jet in relation to the thermal conditions required.

**DSR:** Manual blades adjustment

**DSRS:** Simultaneously blades adjustment

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MAIN BELL MATERIAL	BLADES MATERIAL	SURFACE FINISH	COLOR	FASTENING
up to 16 m	Room cooling and heating	Aluminum	Galvanized Steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



**Note:**

All DSR/DSRS models are equipped with an equalizing grid.

## 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**

Contributes to credits:  
MAN, WST

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

## TECHNICAL DATA

Model	Ø 1 [mm]	Ø 2 [mm]	Ø 3 [mm]	Ø Foro [mm]	H [mm]	H1 [mm]
DSR 250	248	393	283	340	200	40
DSR 315	313	458	348	400	230	40
DSR 400	398	563	437	500	260	60
DSR 500	498	683	540	630	280	60
DSR 630	628	803	675	760	325	70

## APPLICATIONS

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

### Heating function - 45° blades - Selection charts

**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

\*on request

#### Diagram 1 Heating – 45° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 45° for heating function.

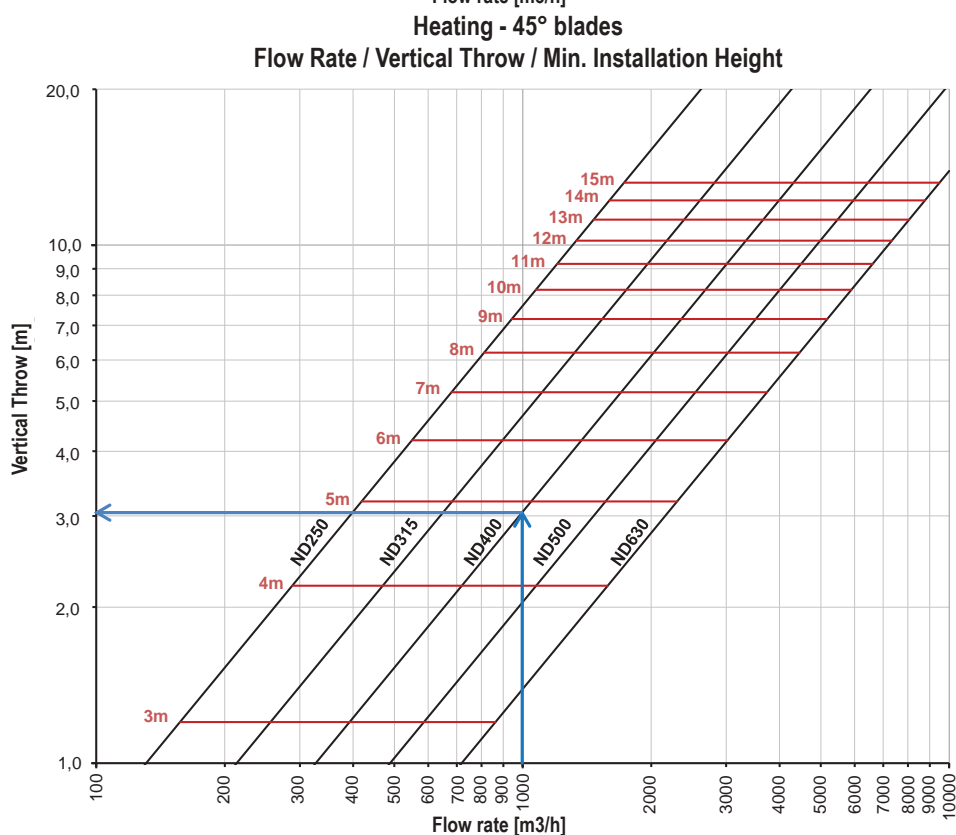
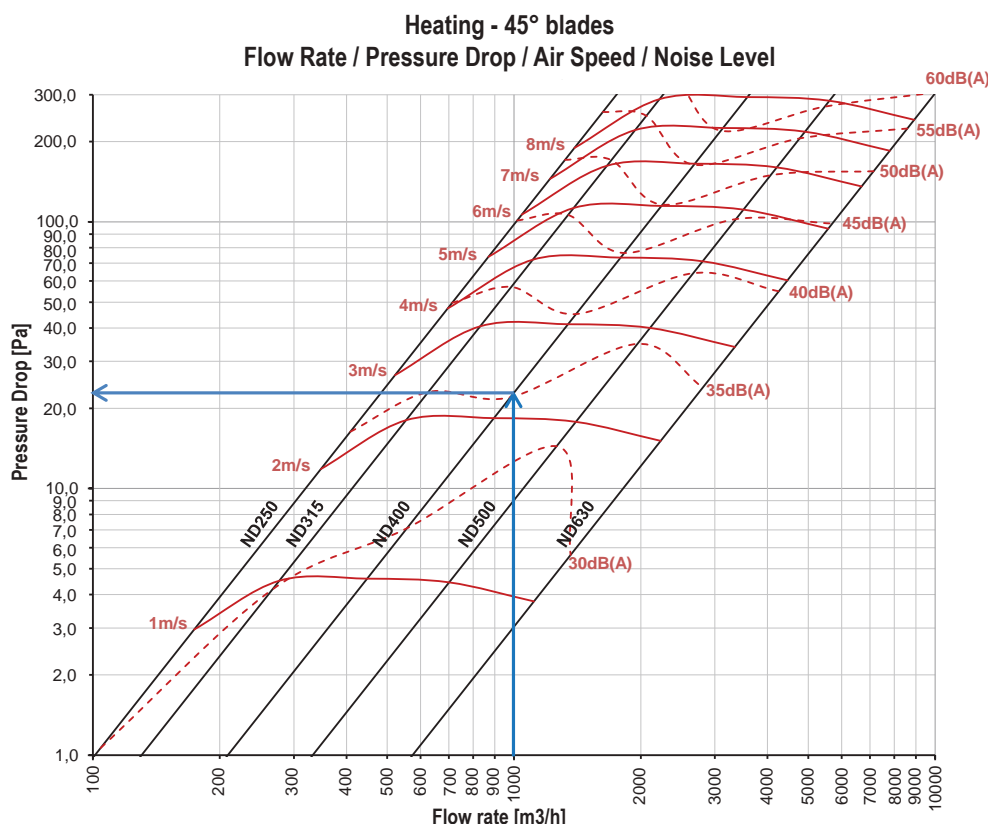
CALCULATION (input data)	
Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	35dB(A)
Number of diffusers expected	10pz.
Throw	3,00m

SELECTION	
Model	DSR 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 25Pa
Noise Level	+/- 35dB(A)
Vertical Isothermal Throw	+/- 3,0m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 4,9m

#### Diagram 2 Heating – 45° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 45° for heating function.

**Note:**  
all operating data refer to diffusers with equalizing grid.





## HEATING - TABLE OF OPERATING DATA - 45° BLADES

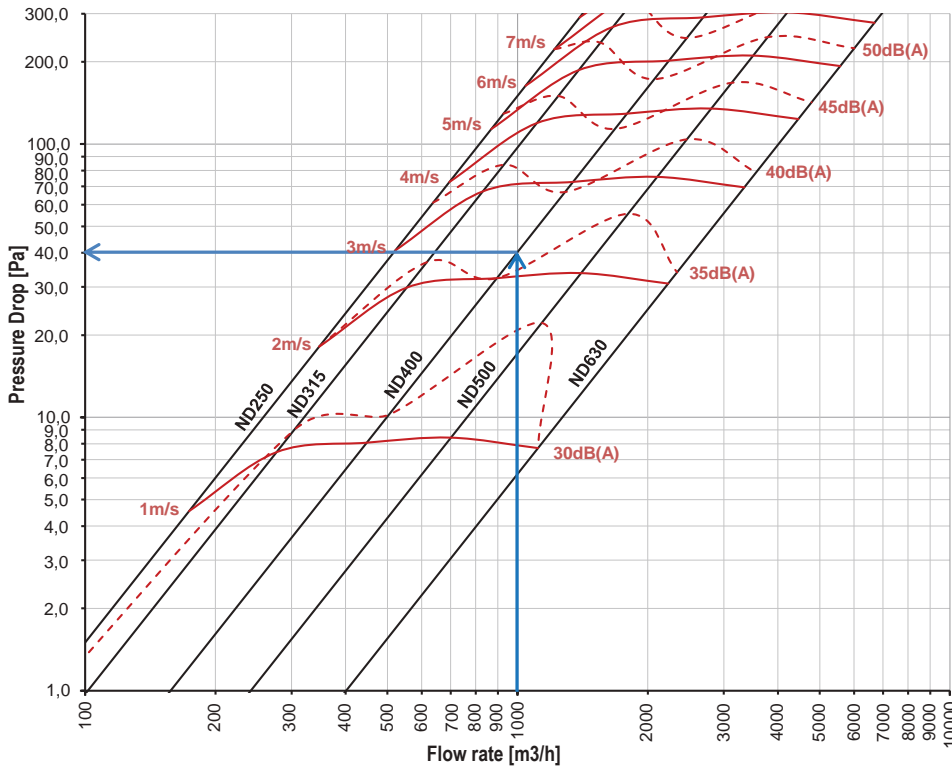
MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 45° Blades - Heating	Pa	3,0	11,8	26,6	47,3	73,9	106,5	144,9	189,3	239,6	295,8
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,7	4,0	5,3	6,6	8,0	9,3	10,6	12,0	13,3
	Noise Level 45° Blades - Heating	dB(A)	32	34	37	40	43	46	49	52	54	57
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 45° Blades - Heating	Pa	4,5	18,0	40,6	72,1	112,7	162,3	220,9	288,6	365,2	450,9
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,6	3,9	5,2	6,5	7,8	9,1	10,4	11,7	13,0
	Noise Level 45° Blades - Heating	dB(A)	30	34	38	42	46	49	53	57	61	65
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 45° Blades - Heating	Pa	4,6	18,4	41,3	73,4	114,8	165,2	224,9	293,8	371,8	459,0
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,7	4,1	5,5	6,8	8,2	9,6	11,0	12,3	13,7
	Noise Level 45° Blades - Heating	dB(A)	29	34	39	45	50	55	60	66	71	76
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5
<b>500</b> Ak: 0,19478m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	701	1402	2104	2805	3506	4207	4909	5610	6311	7012
	Pressure Drop 45° Blades - Heating	Pa	4,4	17,8	40,0	71,1	111,2	160,1	217,9	284,5	360,1	444,6
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,9	4,3	5,7	7,2	8,6	10,0	11,5	12,9	14,4
	Noise Level 45° Blades - Heating	dB(A)	26	31	36	41	46	51	56	61	66	71
	Min. Installation Height	mt	3,2	4,7	6,1	7,5	9,0	10,4	11,8	13,3	14,7	16,2
<b>630</b> Ak: 0,30975m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	1115	2230	3345	4460	5575	6691	7806	8921	10036	11151
	Pressure Drop 45° Blades - Heating	Pa	3,8	15,1	34,0	60,4	94,3	135,8	184,9	241,4	305,6	377,2
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,5
	Noise Level 45° Blades - Heating	dB(A)	29	33	37	41	45	48	52	56	60	64
	Min. Installation Height	mt	3,4	4,9	6,5	8,0	9,6	11,1	12,7	14,2	15,8	17,3

Note: the data indicated refer to operation in isothermal conditions

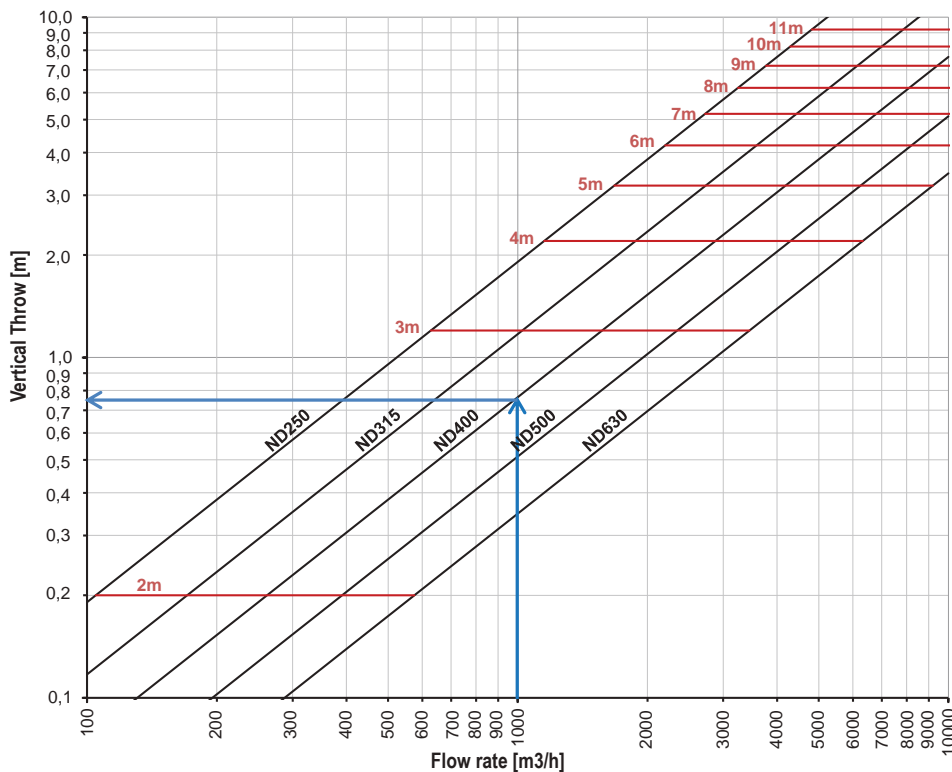
## Cooling function - 67,5° blades - Selection charts

DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)

Cooling - 67,5° blades  
Flow Rate / Pressure Drop / Air Speed / Noise Level



Cooling - 67,5° blades  
Flow Rate / Vertical Throw / Min. Installation Height



### Note

- Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.
- The data relating to the minimum installation height must be understood from the floor level. The air speed at the limit of the comfort zone (1,80m from the floor) is assumed equal to 0,25m/s.

## Diagram 3 Cooling – 67,5° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 67,5° for cooling function.

### CALCULATION (input data)

Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	37dB(A)
Number of diffusers expected	10pz.
Throw	0,75m

### SELECTION

Model	DSR 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 40Pa
Noise Level	37dB(A)
Vertical Isothermal Throw	+/- 0,75m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 2,7m

## Diagram 4 Cooling – 67,5° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 67,5° for cooling function.

### Note:

all operating data refer to diffusers with equalizing grid.

## COOLING - TABLE OF OPERATING DATA - 67,5° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 67,5° Blades - Heating	Pa	4,5	18,2	40,9	72,6	113,5	163,4	222,5	290,6	367,7	454,0
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7	3,0	3,3
	Noise Level 67,5° Blades - Heating	dB(A)	32	35	38	41	44	47	50	53	56	59
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 67,5° Blades - Heating	Pa	7,5	29,8	67,1	119,3	186,4	268,5	365,4	477,3	604,1	745,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,3	2,6	2,9	3,2
	Noise Level 67,5° Blades - Heating	dB(A)	30	34	38	43	47	52	56	61	65	69
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 67,5° Blades - Heating	Pa	8,1	32,3	72,7	129,2	201,9	290,8	395,8	516,9	654,2	807,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,4	1,7	2,1	2,4	2,7	3,1	3,4
	Noise Level 67,5° Blades - Heating	dB(A)	29	35	41	46	52	58	64	69	75	81
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5
<b>500</b> Ak: 0,19478m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	701	1402	2104	2805	3506	4207	4909	5610	6311	7012
	Pressure Drop 67,5° Blades - Heating	Pa	8,4	33,7	75,8	134,8	210,7	303,4	412,9	539,3	682,6	842,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,4	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6
	Noise Level 67,5° Blades - Heating	dB(A)	27	32	37	43	48	53	58	64	69	74
	Min. Installation Height	mt	3,2	4,7	6,1	7,5	9,0	10,4	11,8	13,3	14,7	16,2
<b>630</b> Ak: 0,30975m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	1115	2230	3345	4460	5575	6691	7806	8921	10036	11151
	Pressure Drop 67,5° Blades - Heating	Pa	7,7	30,9	69,5	123,5	192,9	277,8	378,1	493,9	625,1	771,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,4	0,8	1,2	1,6	1,9	2,3	2,7	3,1	3,5	3,9
	Noise Level 67,5° Blades - Heating	dB(A)	30	35	39	44	48	53	57	62	66	71
	Min. Installation Height	mt	3,4	4,9	6,5	8,0	9,6	11,1	12,7	14,2	15,8	17,3

Note: the data indicated refer to operation in isothermal conditions

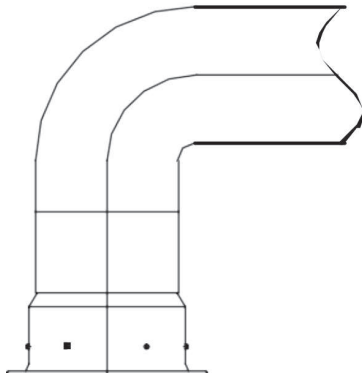


FIG. 1 INSTALLATION ON METAL ELBOW WITH CONNECTING SLEEVE

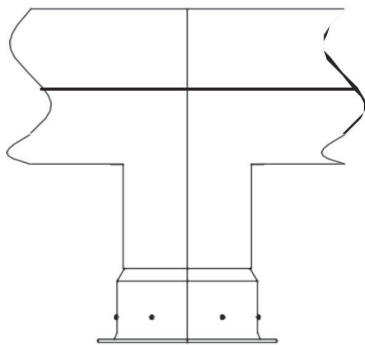


FIG. 2 INSTALLATION ON DUCT WITH CONNECTING SLEEVE

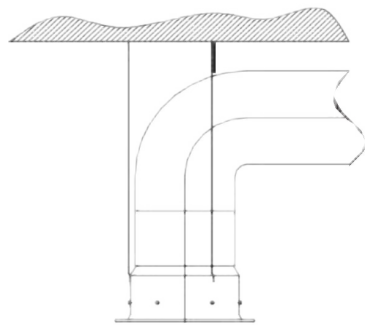


FIG. 3 INSTALLATION ON FLEXIBLE HOSE

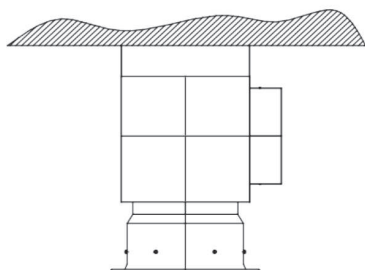


FIG. 4 INSTALLATION WITH PLENUM

Easy installation, adjustments and maintenance. The internal deflectors are easy to adjust: in the version with manual adjustment of each single component; in the version with simultaneous adjustment by acting on the central adjustment screw. The version with simultaneous adjustment can be motorized.

## Adjustment

**Deflector positioned at an angle greater than 45° (closing):** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area.

**Deflector positioned at an angle smaller than 45° (opening):** optimal position for particularly high rooms and in heating conditions, as you obtain a vertical downward throw that resists the convective motion of the ambient air.

## Models

**DSR:** variable geometry diffuser on round base with manual adjustment.

**DSR-S:** variable geometry diffuser on round base with simultaneous adjustment.

### Fig. 1 Installation with butterfly damper

- Fasten the diffuser neck on the connecting sleeve by means of screws with a distance of at least one diameter. Fasten the sleeve to the metal elbow.
- Adjust the deflectors according to the desired diffusion parameters.

### Fig. 2 Installation on duct with connecting sleeve

- Fasten the diffuser neck on the connecting sleeve by means of screws with a distance of at least one diameter.
- Fasten the sleeve to the metal duct.
- Adjust the deflectors according to the desired diffusion parameters.

### Fig 3 Installation on flexible hose

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fit the flexible duct on the diffuser neck and fasten it with a hose clamp.
- Adjust the deflectors according to the desired diffusion parameters.

### Fig. 4 Installation with plenum

- Fasten the plenum to the ceiling by means of brackets.
- Adjust the damper.
- Fasten the diffuser to the plenum outlet sleeve by means of screws.
- Fit the flexible duct on the plenum inlet sleeve.
- Adjust the deflectors according to the desired diffusion parameters.

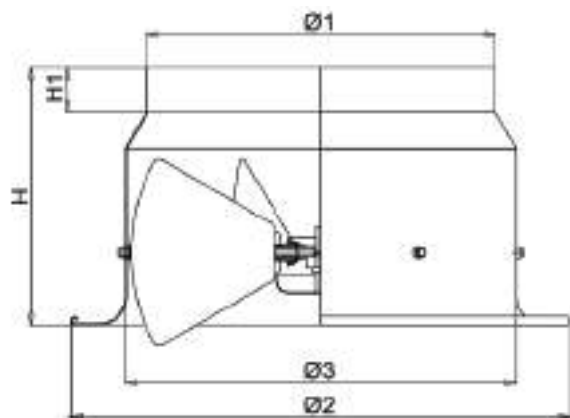


# DSRS-Therm

Variable geometry diffuser developed for rooms with high ceilings where a long throw and a high induction ratio are required. Made up of a housing in which simultaneously adjustable deflectors are equipped with a thermostatic system in order to change the air flow direction according to the required thermal conditions.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MAIN BELL MATERIAL	BLADES MATERIAL	SURFACE FINISH	COLOR	FASTENING
up to 16 m	Room cooling and heating	Aluminum	Galvanized Steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



**Note:**  
All DSRS Therm models are equipped with an equalizing grid.

## 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, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM®**

**BREEAM**










Contributes to credits:  
MAN, HEA, WST

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

## TECHNICAL DATA

Model	Ø 1 [mm]	Ø 2 [mm]	Ø 3 [mm]	Ø Foro [mm]	H [mm]	H1 [mm]
DSR 250	248	393	283	340	200	40
DSR 315	313	458	348	400	230	40
DSR 400	398	563	437	500	260	60
DSR 500	498	683	540	630	280	60
DSR 630	628	803	675	760	325	70

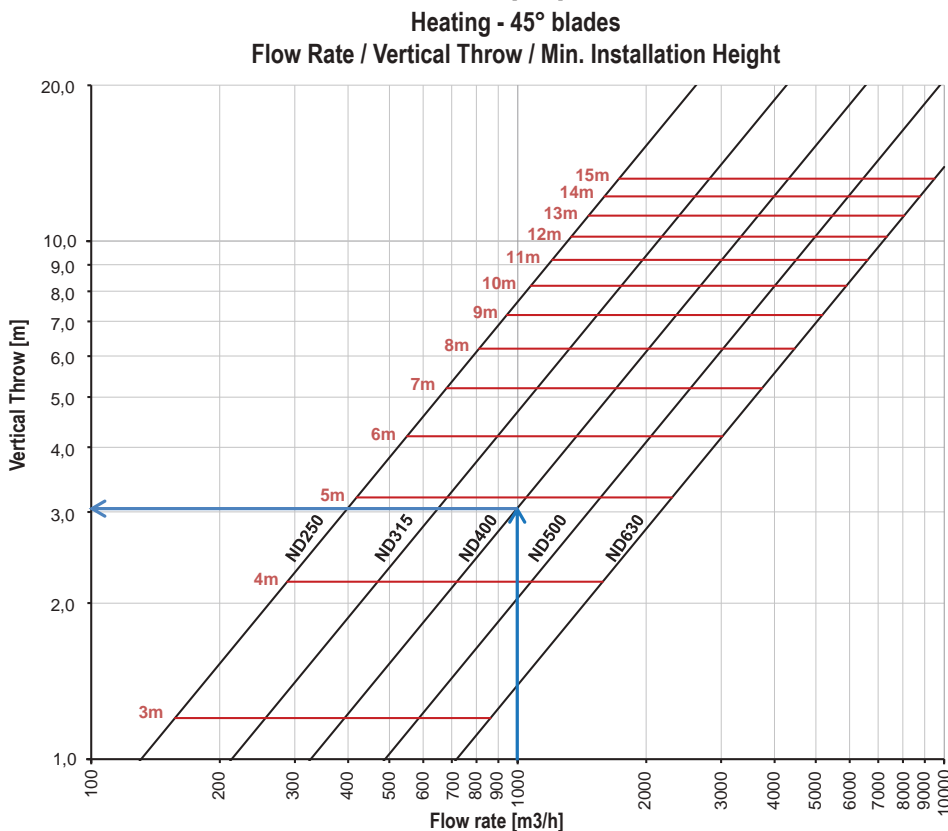
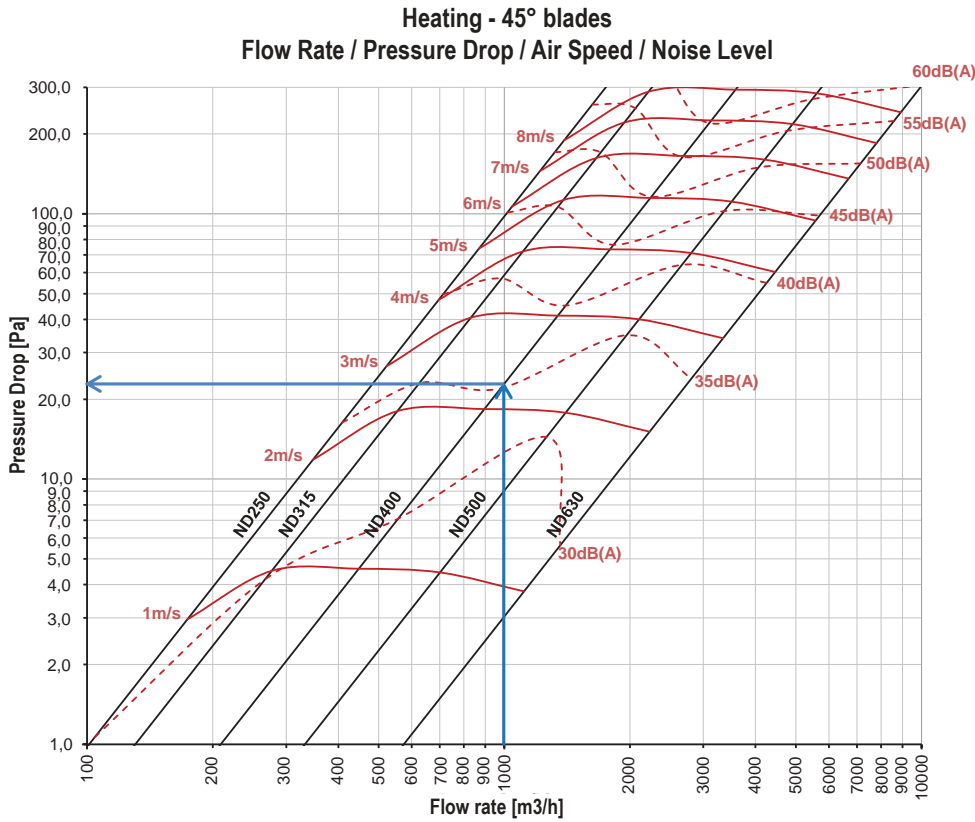
## APPLICATIONS

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

### Heating function - 45° blades - Selection charts

**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

\*on request



### Diagram 1 Heating – 45° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 45° for heating function.

CALCULATION (input data)	
Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	35dB(A)
Number of diffusers expected	10pz.
Throw	3,00m

SELECTION	
Model	DSR 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 25Pa
Noise Level	+/- 35dB(A)
Vertical Isothermal Throw	+/- 3,0m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 4,9m

### Diagram 2 Heating – 45° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 45° for heating function.

**Note:**  
all operating data refer to diffusers with equalizing grid.

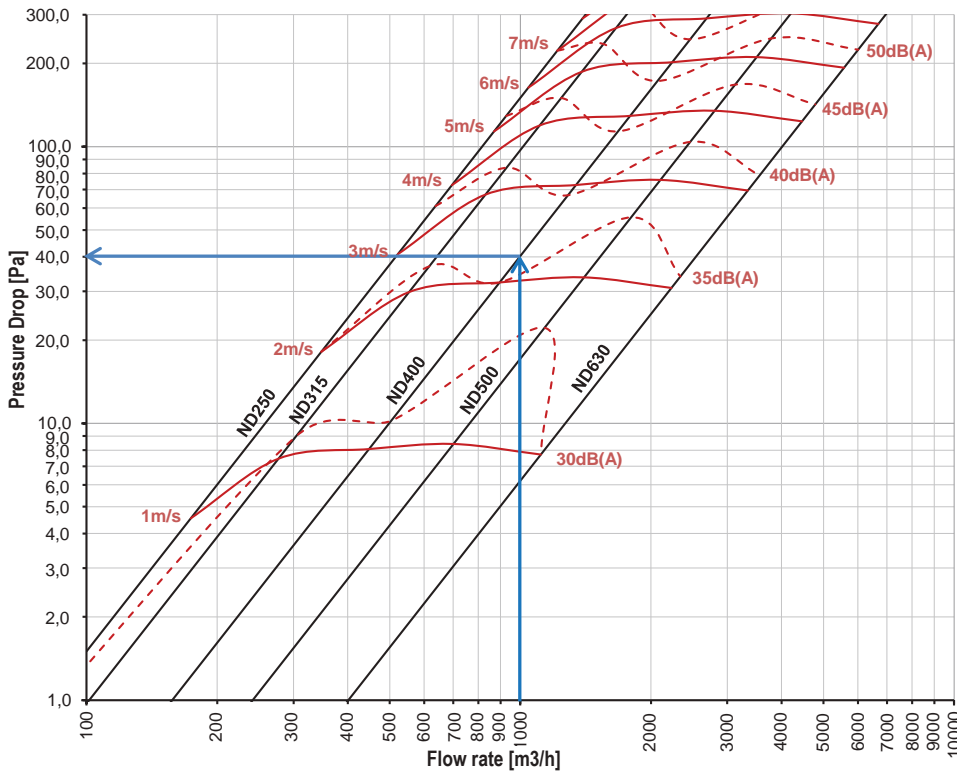
## HEATING - TABLE OF OPERATING DATA - 45° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 45° Blades - Heating	Pa	3,0	11,8	26,6	47,3	73,9	106,5	144,9	189,3	239,6	295,8
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,7	4,0	5,3	6,6	8,0	9,3	10,6	12,0	13,3
	Noise Level 45° Blades - Heating	dB(A)	32	34	37	40	43	46	49	52	54	57
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 45° Blades - Heating	Pa	4,5	18,0	40,6	72,1	112,7	162,3	220,9	288,6	365,2	450,9
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,6	3,9	5,2	6,5	7,8	9,1	10,4	11,7	13,0
	Noise Level 45° Blades - Heating	dB(A)	30	34	38	42	46	49	53	57	61	65
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 45° Blades - Heating	Pa	4,6	18,4	41,3	73,4	114,8	165,2	224,9	293,8	371,8	459,0
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,7	4,1	5,5	6,8	8,2	9,6	11,0	12,3	13,7
	Noise Level 45° Blades - Heating	dB(A)	29	34	39	45	50	55	60	66	71	76
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5
<b>500</b> Ak: 0,19478m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	701	1402	2104	2805	3506	4207	4909	5610	6311	7012
	Pressure Drop 45° Blades - Heating	Pa	4,4	17,8	40,0	71,1	111,2	160,1	217,9	284,5	360,1	444,6
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,9	4,3	5,7	7,2	8,6	10,0	11,5	12,9	14,4
	Noise Level 45° Blades - Heating	dB(A)	26	31	36	41	46	51	56	61	66	71
	Min. Installation Height	mt	3,2	4,7	6,1	7,5	9,0	10,4	11,8	13,3	14,7	16,2
<b>630</b> Ak: 0,30975m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	1115	2230	3345	4460	5575	6691	7806	8921	10036	11151
	Pressure Drop 45° Blades - Heating	Pa	3,8	15,1	34,0	60,4	94,3	135,8	184,9	241,4	305,6	377,2
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,5
	Noise Level 45° Blades - Heating	dB(A)	29	33	37	41	45	48	52	56	60	64
	Min. Installation Height	mt	3,4	4,9	6,5	8,0	9,6	11,1	12,7	14,2	15,8	17,3

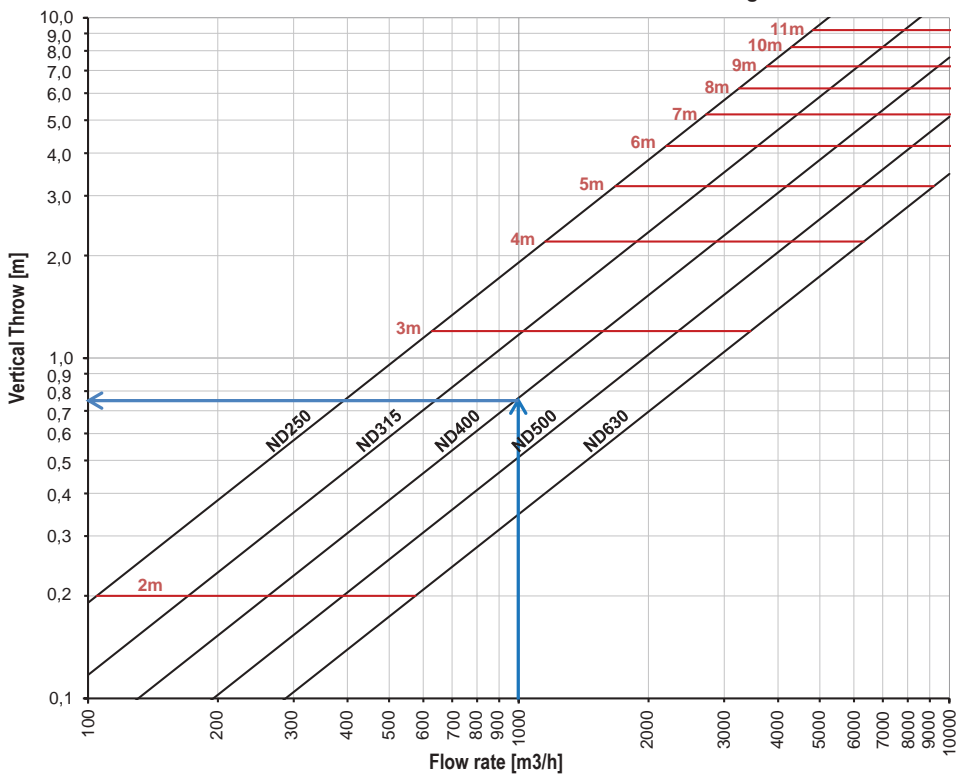
Note: the data indicated refer to operation in isothermal conditions

**Cooling function - 67,5° blades - Selection charts**  
**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

**Cooling - 67,5° blades**  
**Flow Rate / Pressure Drop / Air Speed / Noise Level**



**Cooling - 67,5° blades**  
**Flow Rate / Vertical Throw / Min. Installation Height**



**Note**

- Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.
- The data relating to the minimum installation height must be understood from the floor level. The air speed at the limit of the comfort zone (1,80m from the floor) is assumed equal to 0,25m/s.

**Diagram 3**  
**Cooling – 67,5° blades**

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 67,5° for cooling function.

CALCULATION (input data)	
Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	37dB(A)
Number of diffusers expected	10pz.
Throw	0,75m

SELECTION	
Model	DSR 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 40Pa
Noise Level	37dB(A)
Vertical Isothermal Throw	+/- 0,75m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 2,7m

**Diagram 4**  
**Cooling – 67,5° blades**

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 67,5° for cooling function.

**Note:**

all operating data refer to diffusers with equalizing grid.



## COOLING - TABLE OF OPERATING DATA - 67,5° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 67,5° Blades - Heating	Pa	4,5	18,2	40,9	72,6	113,5	163,4	222,5	290,6	367,7	454,0
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7	3,0	3,3
	Noise Level 67,5° Blades - Heating	dB(A)	32	35	38	41	44	47	50	53	56	59
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 67,5° Blades - Heating	Pa	7,5	29,8	67,1	119,3	186,4	268,5	365,4	477,3	604,1	745,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,3	2,6	2,9	3,2
	Noise Level 67,5° Blades - Heating	dB(A)	30	34	38	43	47	52	56	61	65	69
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 67,5° Blades - Heating	Pa	8,1	32,3	72,7	129,2	201,9	290,8	395,8	516,9	654,2	807,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,4	1,7	2,1	2,4	2,7	3,1	3,4
	Noise Level 67,5° Blades - Heating	dB(A)	29	35	41	46	52	58	64	69	75	81
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5
<b>500</b> Ak: 0,19478m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	701	1402	2104	2805	3506	4207	4909	5610	6311	7012
	Pressure Drop 67,5° Blades - Heating	Pa	8,4	33,7	75,8	134,8	210,7	303,4	412,9	539,3	682,6	842,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,4	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6
	Noise Level 67,5° Blades - Heating	dB(A)	27	32	37	43	48	53	58	64	69	74
	Min. Installation Height	mt	3,2	4,7	6,1	7,5	9,0	10,4	11,8	13,3	14,7	16,2
<b>630</b> Ak: 0,30975m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	1115	2230	3345	4460	5575	6691	7806	8921	10036	11151
	Pressure Drop 67,5° Blades - Heating	Pa	7,7	30,9	69,5	123,5	192,9	277,8	378,1	493,9	625,1	771,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,4	0,8	1,2	1,6	1,9	2,3	2,7	3,1	3,5	3,9
	Noise Level 67,5° Blades - Heating	dB(A)	30	35	39	44	48	53	57	62	66	71
	Min. Installation Height	mt	3,4	4,9	6,5	8,0	9,6	11,1	12,7	14,2	15,8	17,3

i Note: the data indicated refer to operation in isothermal conditions

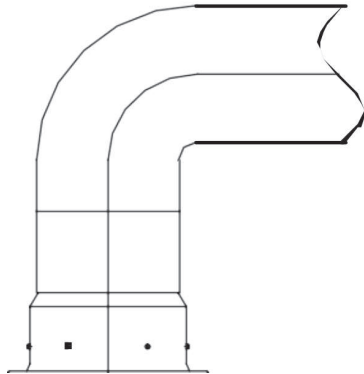


FIG. 1 INSTALLATION ON METAL ELBOW WITH CONNECTING SLEEVE

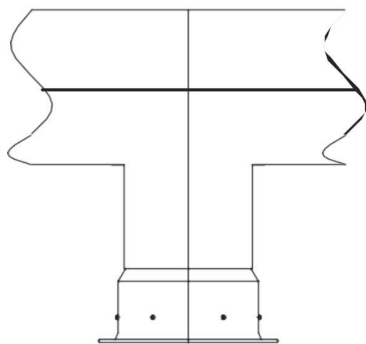


FIG. 2 INSTALLATION ON DUCT WITH CONNECTING SLEEVE

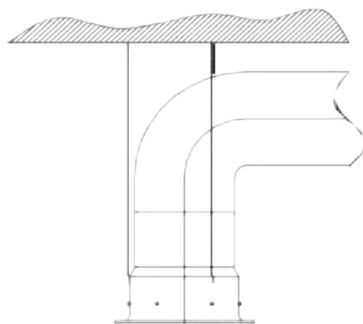


FIG. 3 INSTALLATION ON FLEXIBLE HOSE

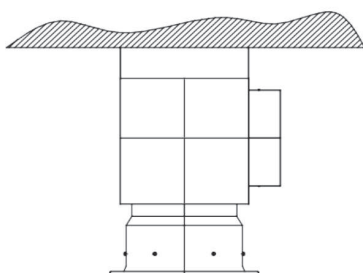


FIG. 4 INSTALLATION WITH PLENUM

## Thermostatic System Detail

The self-adjusting system for blades is made with harmonic steel springs with a thermostatic effect which allow to correctly relocate the blades of the diffuser based on the temperature of the air introduced to obtain the appropriate throw.

Easy installation, adjustments and maintenance. The internal deflectors are easy to adjust: in the version with manual adjustment of each single component; in the version with simultaneous adjustment by acting on the central adjustment screw. The version with simultaneous adjustment can be motorized.

## Adjustment

**Deflector positioned at an angle greater than 45° (closing):** optimal position in cooling conditions in order to have the largest horizontal diffusion radius without creating discomfort in the occupied area.

**Deflector positioned at an angle smaller than 45° (opening):** optimal position for particularly high rooms and in heating conditions, as you obtain a vertical downward throw that resists the convective motion of the ambient air.

## Models

**DSR:** variable geometry diffuser on round base with manual adjustment.

**DSR-S:** variable geometry diffuser on round base with simultaneous adjustment.

## Fig. 1 Installation with butterfly damper

- Fasten the diffuser neck on the connecting sleeve by means of screws with a distance of at least one diameter. Fasten the sleeve to the metal elbow.
- Adjust the deflectors according to the desired diffusion parameters.

## Fig. 2 Installation on duct with connecting sleeve

- Fasten the diffuser neck on the connecting sleeve by means of screws with a distance of at least one diameter.
- Fasten the sleeve to the metal duct.
- Adjust the deflectors according to the desired diffusion parameters.

## Fig 3 Installation on flexible hose

- Hang the diffuser on the ceiling or fasten it on the false ceiling.
- Fit the flexible duct on the diffuser neck and fasten it with a hose clamp.
- Adjust the deflectors according to the desired diffusion parameters.

## Fig. 4 Installation with plenum

- Fasten the plenum to the ceiling by means of brackets.
- Adjust the damper.
- Fasten the diffuser to the plenum outlet sleeve by means of screws.
- Fit the flexible duct on the plenum inlet sleeve.
- Adjust the deflectors according to the desired diffusion parameters.



# DSRQ-DSRSQ

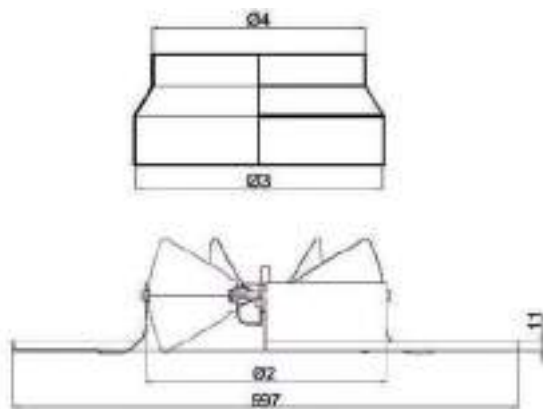
Variable geometry diffuser on 597x597 mm panel developed for rooms with high ceilings where a long throw and a high induction ratio are required. Made up of a half-housing in which individually or simultaneously adjustable deflectors are fitted (if required) in order to change the direction of the air jet in relation to the thermal conditions required.

**DSRQ:** Manual blades adjustment

**DSRSQ:** Simultaneously blades adjustment

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MAIN BELL MATERIAL	BLADES MATERIAL	SURFACE FINISH	COLOR	FASTENING
up to 16 m	Room cooling and heating	Aluminum	Galvanized Steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



**Note:**

The upper bell for fixing the DSRQ/DSRSQ models is equipped with an equalizing grid.

## 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	Ø 2 [mm]	Ø 3 [mm]	Ø 4 [mm]
DSRQ 250	284	286	248
DSRQ 315	349	352	313
DSRQ 400	433	436	398

## APPLICATIONS

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

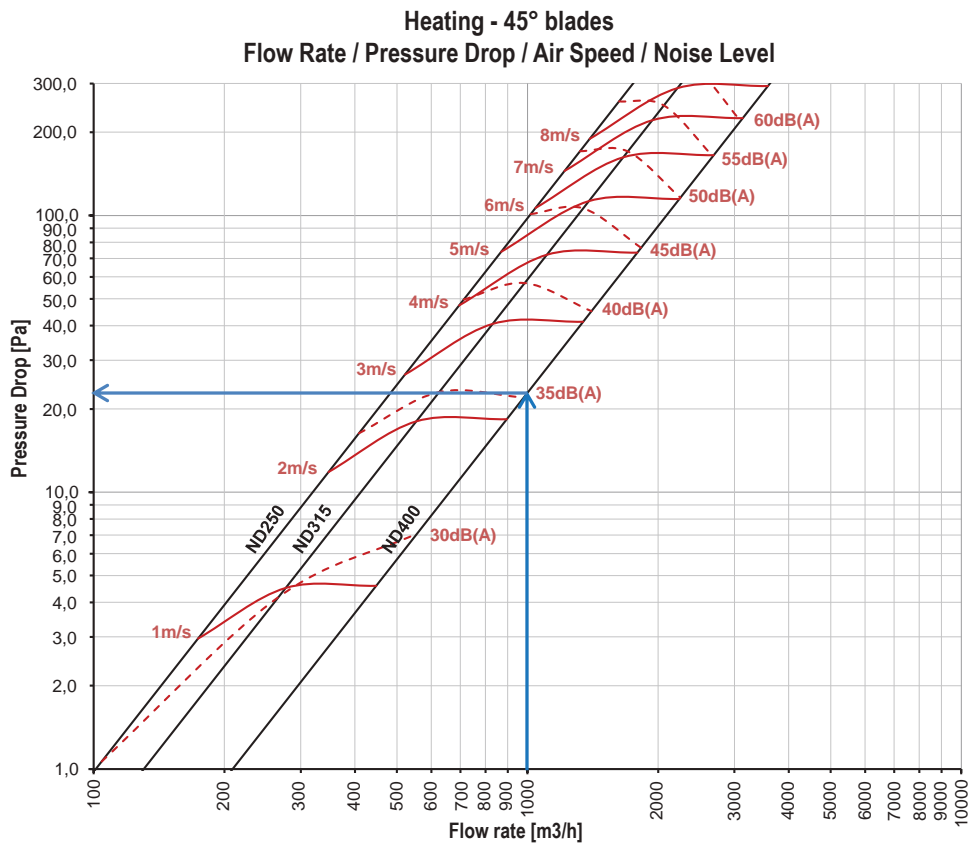
### Heating function - 45° blades - Selection charts

**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

\*on request

#### Diagram 1 Heating – 45° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 45° for heating function.



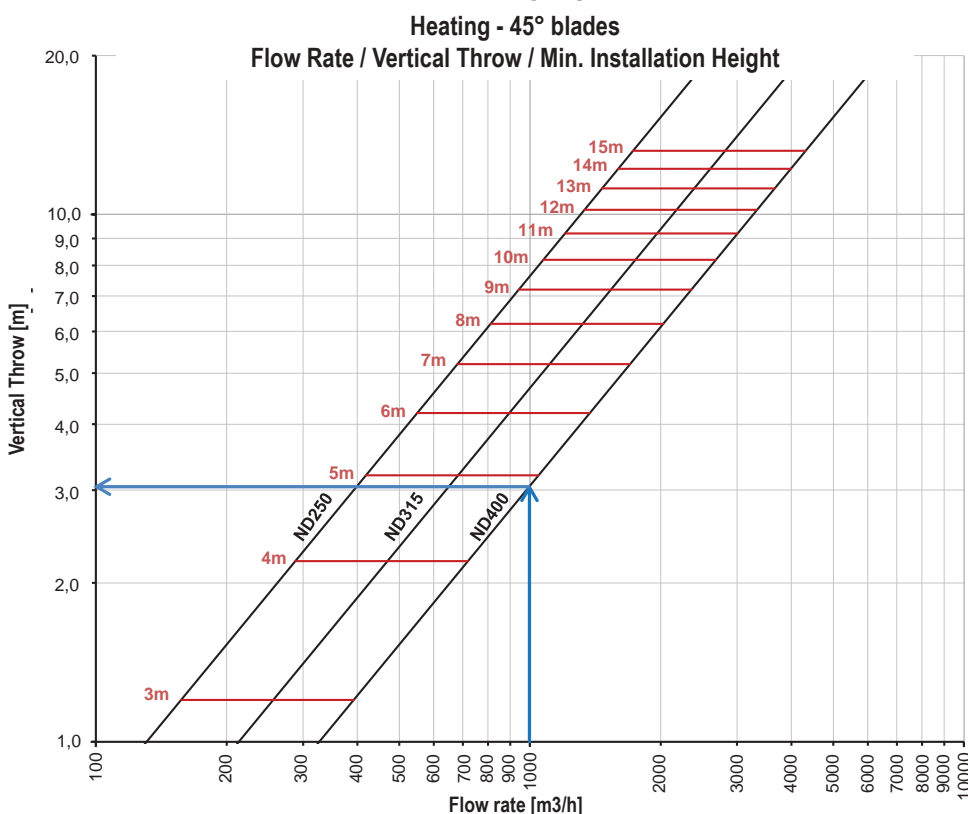
CALCULATION (input data)	
Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	35dB(A)
Number of diffusers expected	10pz.
Throw	3,00m

SELECTION	
Model	DSRQ 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 25Pa
Noise Level	+/- 35dB(A)
Vertical Isothermal Throw	+/- 3,0m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 4,9m

#### Diagram 2 Heating – 45° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 45° for heating function.

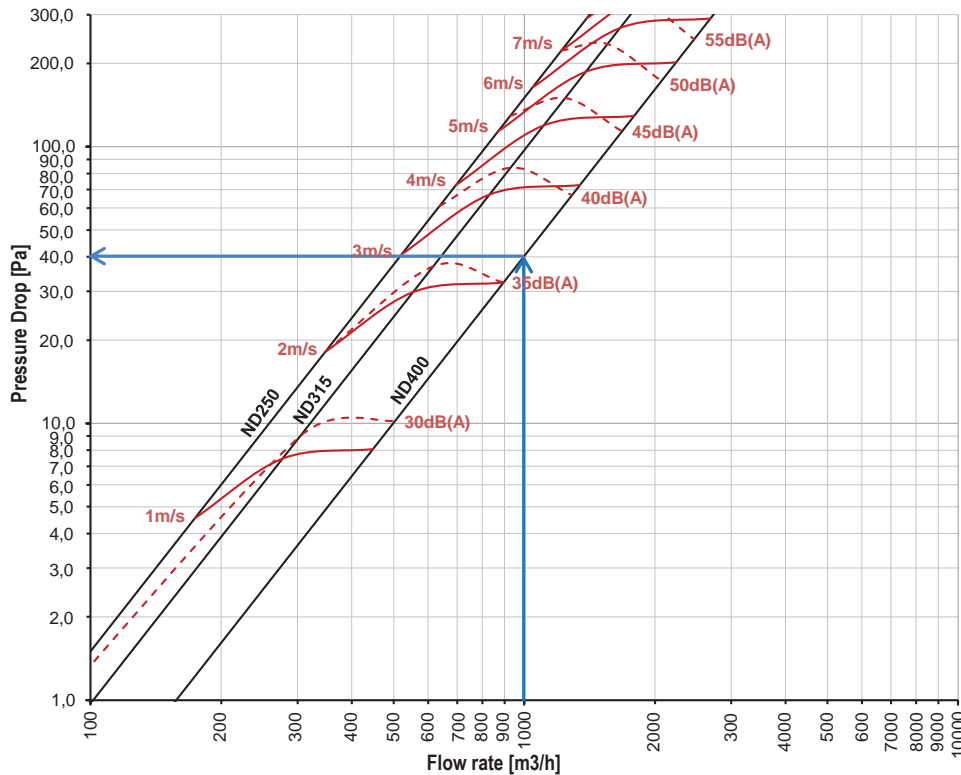
**Note:**  
all operating data refer to diffusers with equalizing grid.



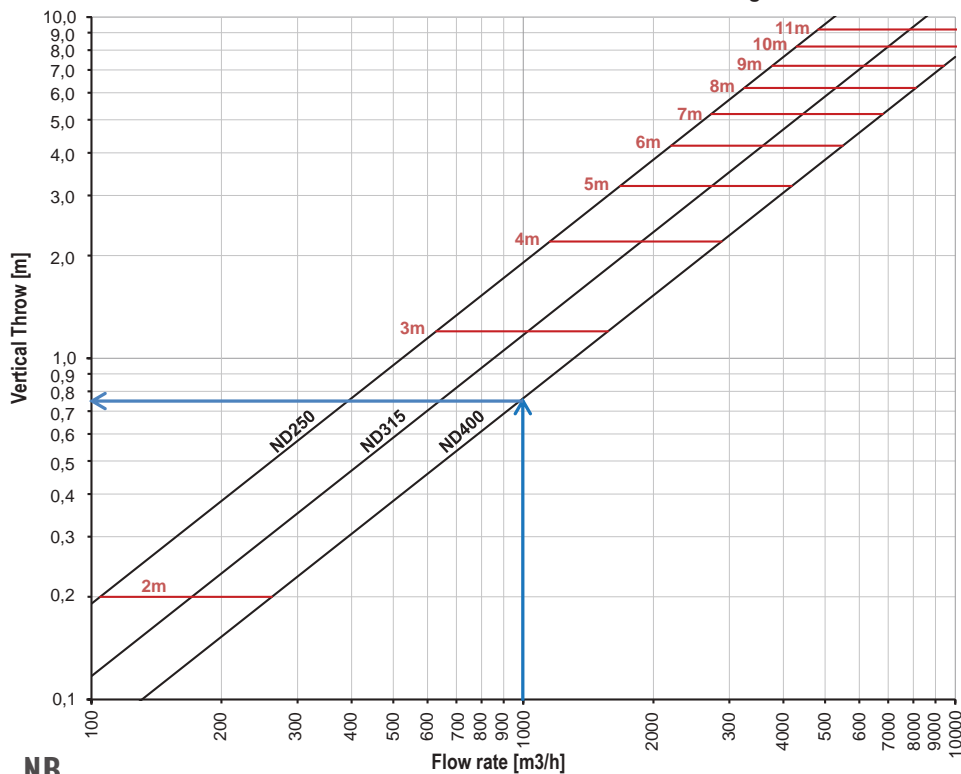
## Cooling function - 67,5° blades - Selection charts

**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

**Cooling - 67,5° blades**  
Flow Rate / Pressure Drop / Air Speed / Noise Level



**Cooling - 67,5° blades**  
Flow Rate / Vertical Throw / Min. Installation Height



### NB

- Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.
- The data relating to the minimum installation height must be understood from the floor level. The air speed at the limit of the comfort zone (1,80m from the floor) is assumed equal to 0,25m/s.

## Diagram 3

### Cooling – 67,5° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 67,5° for cooling function.

#### CALCULATION

(input data)

Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	37dB(A)
Number of diffusers expected	10pz.
Throw	0,75m

#### SELECTION

Model	DSRQ 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 40Pa
Noise Level	37dB(A)
Vertical Isothermal Throw	+/- 0,75m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 2,7m

## Diagram 4

### Cooling – 67,5° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 67,5° for cooling function.

#### Note:

all operating data refer to diffusers with equalizing grid.

## HEATING - TABLE OF OPERATING DATA - 45° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m2	Flow Rate	m3/h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 45° Blades - Heating	Pa	3,0	11,8	26,6	47,3	73,9	106,5	144,9	189,3	239,6	295,8
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,7	4,0	5,3	6,6	8,0	9,3	10,6	12,0	13,3
	Noise Level 45° Blades - Heating	dB(A)	32	34	37	40	43	46	49	52	54	57
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m2	Flow Rate	m3/h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 45° Blades - Heating	Pa	4,5	18,0	40,6	72,1	112,7	162,3	220,9	288,6	365,2	450,9
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,6	3,9	5,2	6,5	7,8	9,1	10,4	11,7	13,0
	Noise Level 45° Blades - Heating	dB(A)	30	34	38	42	46	49	53	57	61	65
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m2	Flow Rate	m3/h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 45° Blades - Heating	Pa	4,6	18,4	41,3	73,4	114,8	165,2	224,9	293,8	371,8	459,0
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,7	4,1	5,5	6,8	8,2	9,6	11,0	12,3	13,7
	Noise Level 45° Blades - Heating	dB(A)	29	34	39	45	50	55	60	66	71	76
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5

i Note: the data indicated refer to operation in isothermal conditions

## COOLING - TABLE OF OPERATING DATA - 67,5° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m2	Flow Rate	m3/h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 67,5° Blades - Heating	Pa	4,5	18,2	40,9	72,6	113,5	163,4	222,5	290,6	367,7	454,0
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7	3,0	3,3
	Noise Level 67,5° Blades - Heating	dB(A)	32	35	38	41	44	47	50	53	56	59
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m2	Flow Rate	m3/h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 67,5° Blades - Heating	Pa	7,5	29,8	67,1	119,3	186,4	268,5	365,4	477,3	604,1	745,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,3	2,6	2,9	3,2
	Noise Level 67,5° Blades - Heating	dB(A)	30	34	38	43	47	52	56	61	65	69
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m2	Flow Rate	m3/h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 67,5° Blades - Heating	Pa	8,1	32,3	72,7	129,2	201,9	290,8	395,8	516,9	654,2	807,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,4	1,7	2,1	2,4	2,7	3,1	3,4
	Noise Level 67,5° Blades - Heating	dB(A)	29	35	41	46	52	58	64	69	75	81
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5

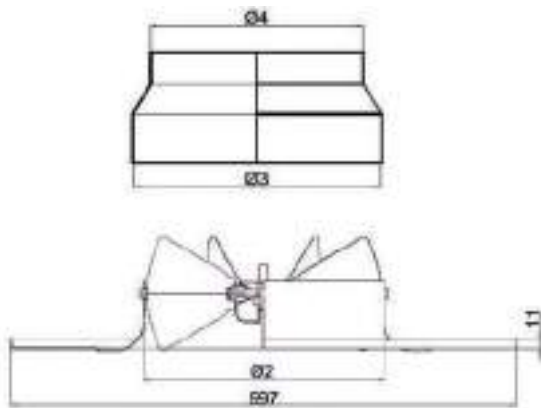


# DRSQ Therm

Variable geometry diffuser on 597x597 mm panel developed for rooms with high ceilings where a long throw and a high induction ratio are required. Made up of a half-housing in which simultaneously adjustable deflectors are equipped with a thermostatic system in order to change the air flow direction according to the required thermal conditions.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MAIN BELL MATERIAL	BLADES MATERIAL	SURFACE FINISH	COLOR	FASTENING
up to 16 m	Room cooling and heating	Aluminum	Galvanized Steel	Epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in nonstandard RAL colours	by means of screws positioned on the diffuser neck



**Nota:**

The upper bell for fixing the DRSQ Therm models is equipped with an equalizing grid.

## 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, EQ



**WELL**

Contributes to credits:  
THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM**<sup>®</sup>

**BREEAM**










Contributes to credits:  
MAN, HEA, WST

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

## TECHNICAL DATA

Model	Ø 2 [mm]	Ø 3 [mm]	Ø 4 [mm]
DSRQ 250	284	286	248
DSRQ 315	349	352	313
DSRQ 400	433	436	398

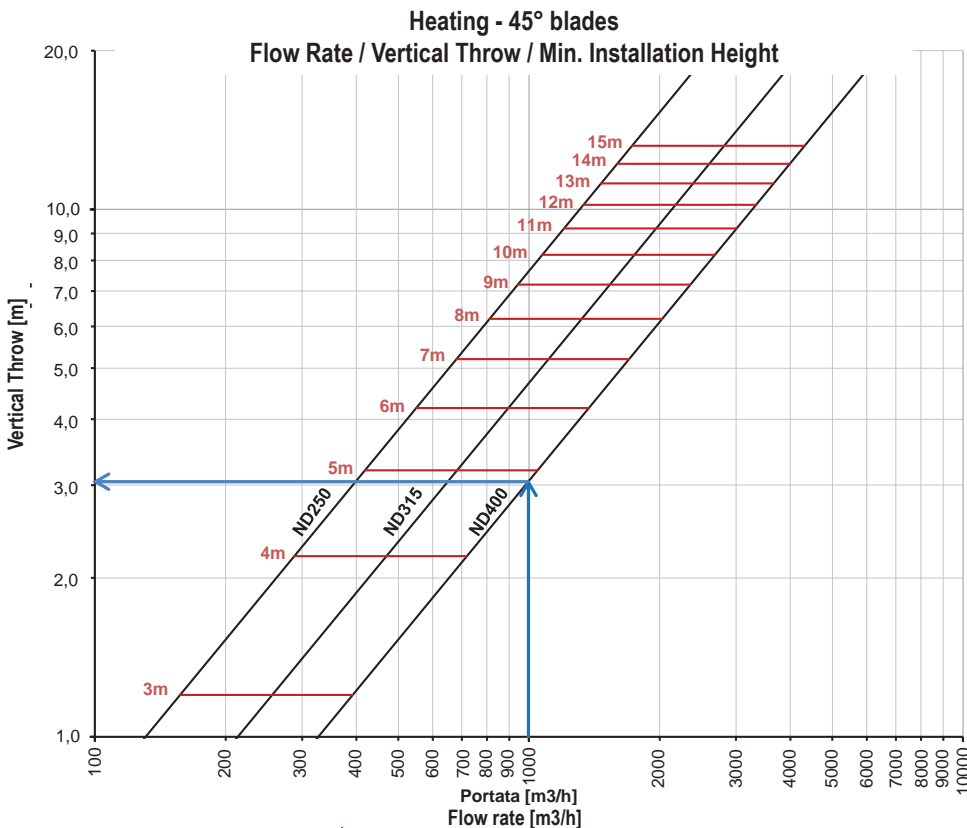
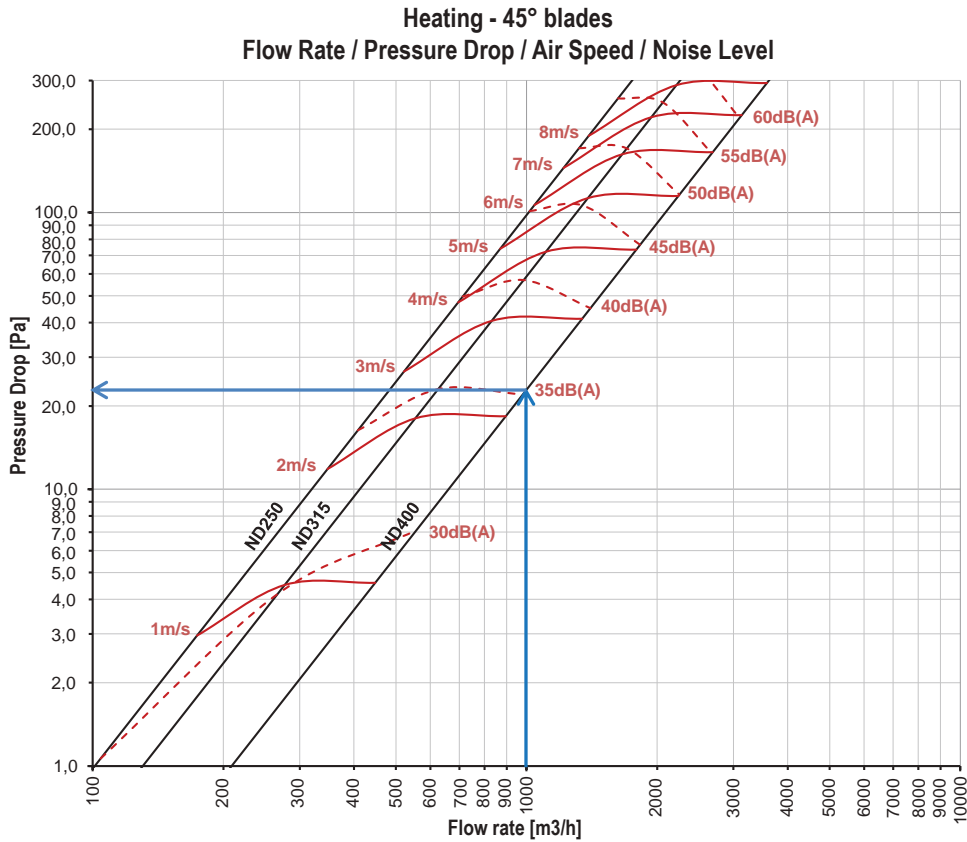
## APPLICATIONS

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

### Heating function - 45° blades - Selection charts

**DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)**

\*on request



### Diagram 1 Heating – 45° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 45° for heating function.

CALCULATION (input data)	
Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	35dB(A)
Number of diffusers expected	10pz.
Throw	3,00m

SELECTION	
Model	DSRQ 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 25Pa
Noise Level	+/- 35dB(A)
Vertical Isothermal Throw	+/- 3,0m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 4,9m

### Diagram 2 Heating – 45° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 45° for heating function.

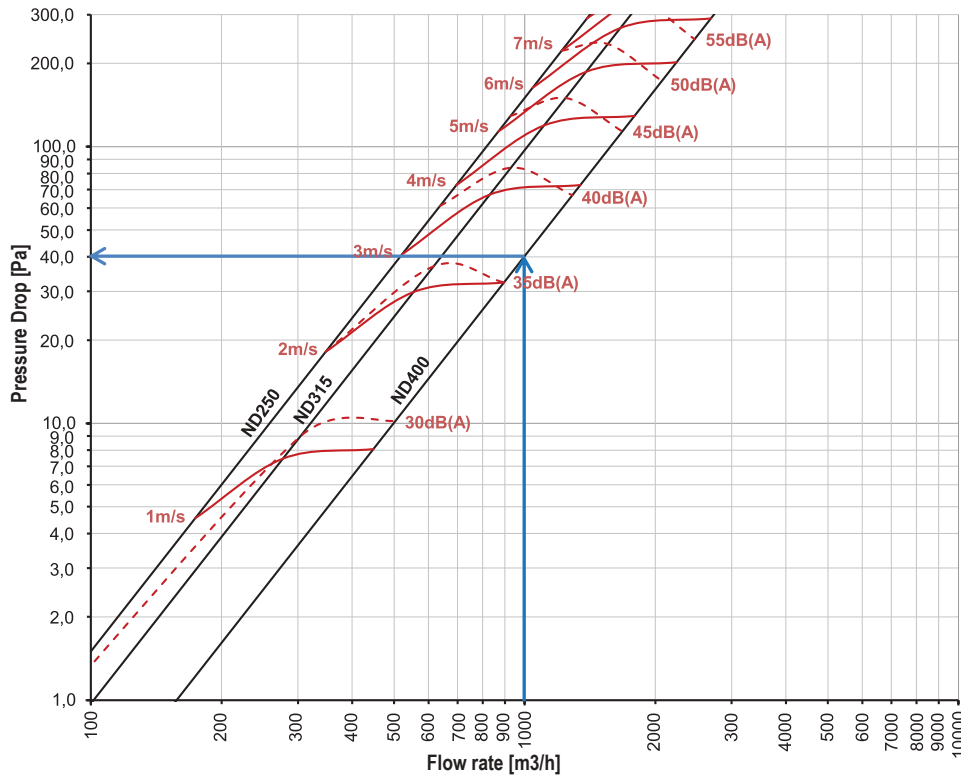
**Note:**  
all operating data refer to diffusers with equalizing grid.



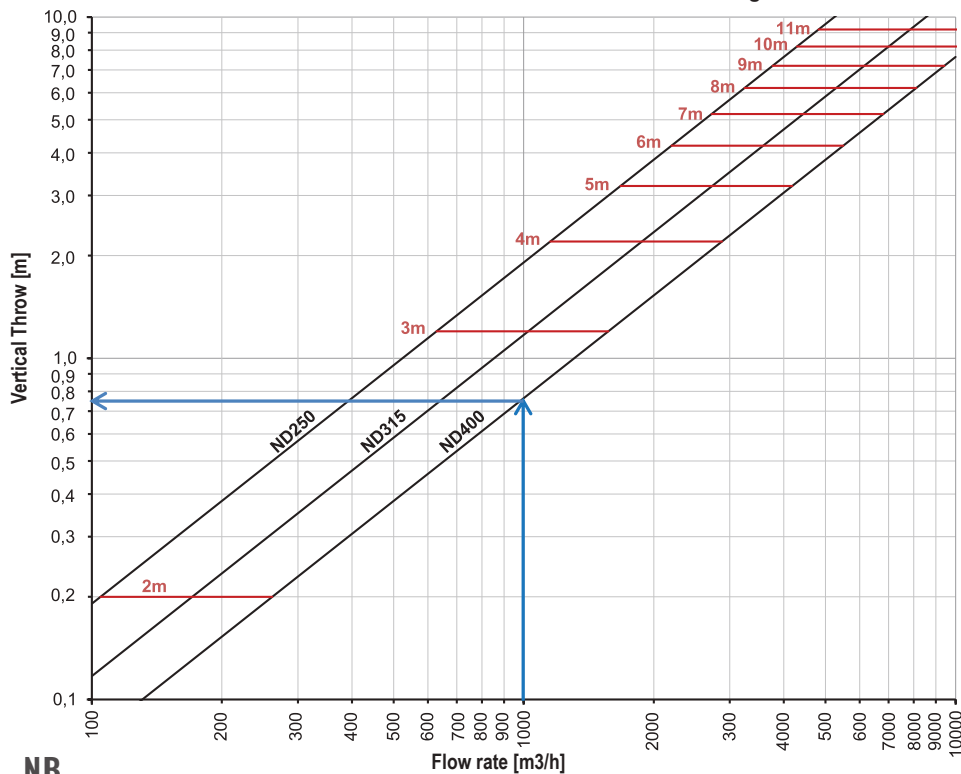
## Cooling function - 67,5° blades - Selection charts

DISTANCE BETWEEN CENTERS = (Flow Rate / 12 / Room Height)

Cooling - 67,5° blades  
Flow Rate / Pressure Drop / Air Speed / Noise Level



Cooling - 67,5° blades  
Flow Rate / Vertical Throw / Min. Installation Height



### NB

- Pressure drop data shown in the diagram refer to the diffuser with the damper fully open.
- The data relating to the minimum installation height must be understood from the floor level. The air speed at the limit of the comfort zone (1,80m from the floor) is assumed equal to 0,25m/s.

## Diagram 3 Cooling – 67,5° blades

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation and speed of the incoming air flow. These data refer to the diffuser with blades at 67,5° for cooling function.

### CALCULATION (input data)

Total Flow Rate	10.000 m <sup>3</sup> /h
Max. Noise Level	37dB(A)
Number of diffusers expected	10pz.
Throw	0,75m

### SELECTION

Model	DSRQ 400
Flow Rate	1.000 m <sup>3</sup> /h
Pressure Drop	+/- 40Pa
Noise Level	37dB(A)
Vertical Isothermal Throw	+/- 0,75m
Air Inlet Speed	+/- 2,2m/s
Min. Installation Height	+/- 2,7m

## Diagram 4 Cooling – 67,5° blades

The diagram shows the vertical isothermal throw of the diffuser based on the flow rate with terminal speed (Vt) of 0,25m/s, in addition to the indication of the minimum recommended installation height. These data refer to the diffuser with blades at 67,5° for cooling function.

### Note:

all operating data refer to diffusers with equalizing grid.

## HEATING - TABLE OF OPERATING DATA - 45° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m2	Flow Rate	m3/h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 45° Blades - Heating	Pa	3,0	11,8	26,6	47,3	73,9	106,5	144,9	189,3	239,6	295,8
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,7	4,0	5,3	6,6	8,0	9,3	10,6	12,0	13,3
	Noise Level 45° Blades - Heating	dB(A)	32	34	37	40	43	46	49	52	54	57
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m2	Flow Rate	m3/h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 45° Blades - Heating	Pa	4,5	18,0	40,6	72,1	112,7	162,3	220,9	288,6	365,2	450,9
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,3	2,6	3,9	5,2	6,5	7,8	9,1	10,4	11,7	13,0
	Noise Level 45° Blades - Heating	dB(A)	30	34	38	42	46	49	53	57	61	65
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m2	Flow Rate	m3/h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 45° Blades - Heating	Pa	4,6	18,4	41,3	73,4	114,8	165,2	224,9	293,8	371,8	459,0
	Vertical Throw Vt 0,25 45° Blades - Heating	mt	1,4	2,7	4,1	5,5	6,8	8,2	9,6	11,0	12,3	13,7
	Noise Level 45° Blades - Heating	dB(A)	29	34	39	45	50	55	60	66	71	76
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5

i Note: the data indicated refer to operation in isothermal conditions

## COOLING - TABLE OF OPERATING DATA - 67,5° BLADES

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>250</b> Ak: 0,04831m2	Flow Rate	m3/h	174	348	522	696	869	1043	1217	1391	1565	1739
	Pressure Drop 67,5° Blades - Heating	Pa	4,5	18,2	40,9	72,6	113,5	163,4	222,5	290,6	367,7	454,0
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7	3,0	3,3
	Noise Level 67,5° Blades - Heating	dB(A)	32	35	38	41	44	47	50	53	56	59
	Min. Installation Height	mt	3,1	4,5	5,8	7,1	8,4	9,8	11,1	12,4	13,8	15,1
<b>315</b> Ak: 0,07694m2	Flow Rate	m3/h	277	554	831	1108	1385	1662	1939	2216	2493	2770
	Pressure Drop 67,5° Blades - Heating	Pa	7,5	29,8	67,1	119,3	186,4	268,5	365,4	477,3	604,1	745,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,3	2,6	2,9	3,2
	Noise Level 67,5° Blades - Heating	dB(A)	30	34	38	43	47	52	56	61	65	69
	Min. Installation Height	mt	3,1	4,4	5,7	7,0	8,3	9,6	10,9	12,2	13,5	14,8
<b>400</b> Ak: 0,12441m2	Flow Rate	m3/h	448	896	1344	1792	2239	2687	3135	3583	4031	4479
	Pressure Drop 67,5° Blades - Heating	Pa	8,1	32,3	72,7	129,2	201,9	290,8	395,8	516,9	654,2	807,7
	Vertical Throw Vt 0,25 67,5° Blades - Heating	mt	0,3	0,7	1,0	1,4	1,7	2,1	2,4	2,7	3,1	3,4
	Noise Level 67,5° Blades - Heating	dB(A)	29	35	41	46	52	58	64	69	75	81
	Min. Installation Height	mt	3,2	4,5	5,9	7,3	8,6	10,0	11,4	12,8	14,1	15,5

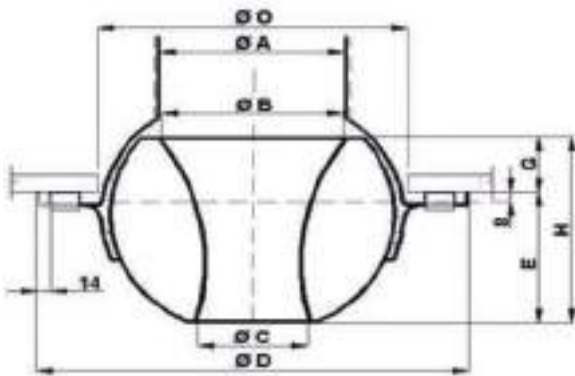


# DLG

Nozzle diffuser for the treatment of large volumes of air.  
Nozzle orientable up to 45° in order to give the correct propagation direction on the air injected.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

NOMINAL DIAMETER	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
70, 100, 130, 160mm corresponding to the rear sleeve diameter	This diffuser is very efficient in both cooling and heating paying attention to its orientation in relation to the temperature of the air injected. It is suitable for air treatment in large rooms or with particularly high ceilings. Throws with ranges of more than 20 meters can be achieved. Frequently used for concert halls, museums, theatres, shopping centres, airports, trade fair pavilions, courthouses, etc.	Aluminum	Epoxy powder coating resistant to impact and abrasion	White RAL 9010	by means of side screws



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## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø C [mm]	Ø D [mm]	Ø O [mm]	E [mm]	G [mm]	H [mm]
DLG 70	120	125	70	235	185	73	40	114
DLG 100	175	170	100	300	235	92	58	150
DLG 130	224	210	130	350	285	115	70	185
DLG 160	250	250	160	405	335	142	74	216

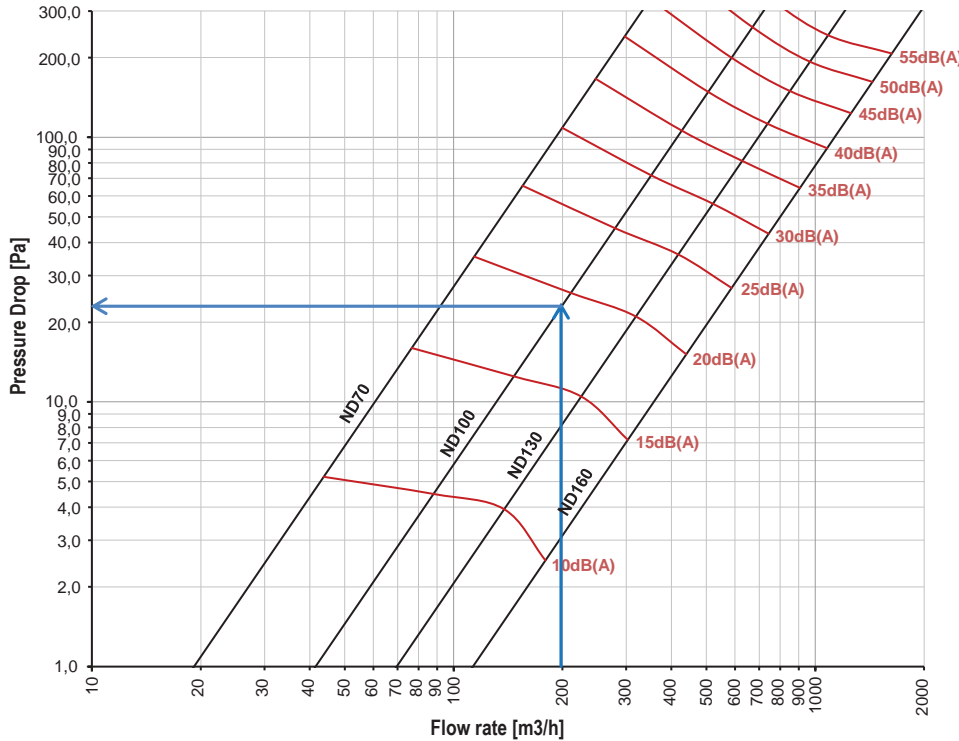
## APPLICATIONS

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

\*on request

### Selection charts

Flow Rate / Pressure Drop / Noise Level



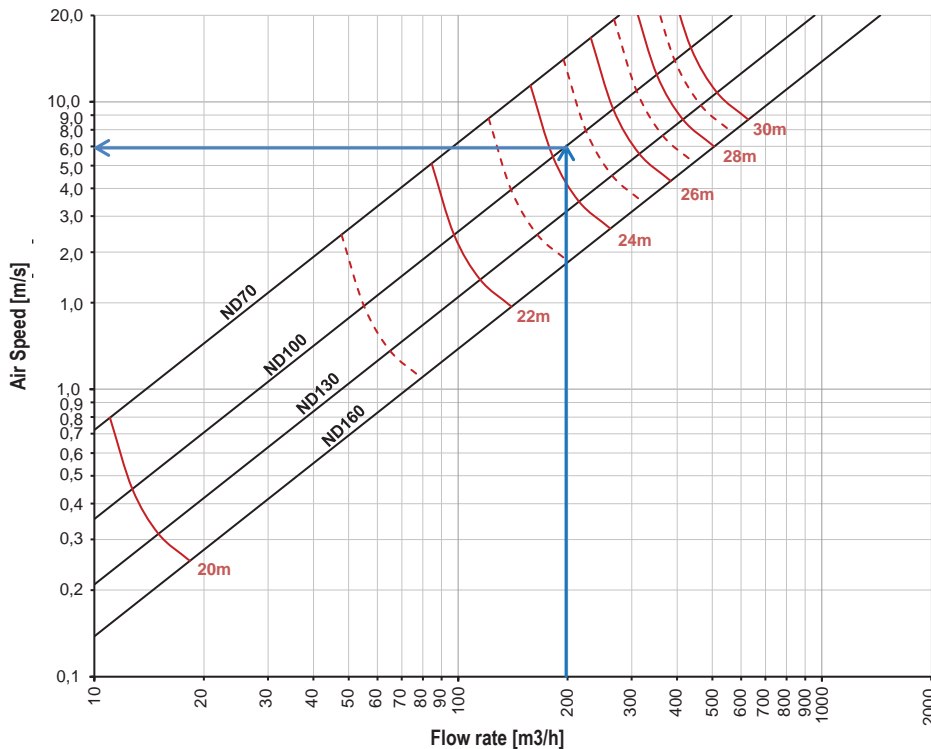
**Diagram 1**

The graph shows the pressure drop of the diffuser based on the flow rate with relative indication of the noise level without environmental attenuation.

#### CALCULATION (input data)

Flow Rate	200mc
Max. Noise Level	20dB(A)
Max. Pressure Drop	30Pa

Flow Rate / Air Speed / Throw (Vt.: 0,25m/s)



#### SELECTION

Model	DLG100
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 22Pa
Noise Leve	+/-20dB(A)
Inlet Air Speed	6,0m/s
Isothermal Throw	+/- 24m

**Diagram 2**

The diagram shows the air speed exiting the diffuser based on the flow rate with relative indication of the horizontal launch obtainable with terminal speed (Vt) of 0,25m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

**Note:** The pressure drop data shown in the graph refer to the diffuser without accessories with 0° inclination on the horizontal axis.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>70</b> Ak: 0,0038m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	28	55	83	111	139	166	194	222	249	277
	Pressure Drop	Pa	2,1	8,4	18,8	33,5	52,3	75,3	102,5	133,9	169,4	209,2
	Throw Vt 0,25	mt	20,5	21,2	22,0	22,7	23,5	24,2	25,0	25,7	26,5	27,2
	Noise Level	dB(A)	7	12	16	20	23	26	29	32	35	38
<b>100</b> Ak: 0,0078m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	113	170	226	283	339	396	452	509	565
	Pressure Drop	Pa	1,9	7,4	16,7	29,7	46,4	66,7	90,8	118,7	150,2	185,4
	Throw Vt 0,25	mt	21,0	22,4	23,7	25,0	26,4	27,7	29,0	30,4	31,7	33,0
	Noise Level	dB(A)	7	12	17	21	25	29	33	37	40	44
<b>130</b> Ak: 0,0133m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	96	191	287	382	478	573	669	765	860	956
	Pressure Drop	Pa	1,9	7,5	17,0	30,1	47,1	67,8	92,3	120,6	152,6	188,4
	Throw Vt 0,25	mt	21,6	23,5	25,4	27,3	29,3	31,2	33,1	35,0	36,9	38,8
	Noise Level	dB(A)	7	13	18	23	28	32	37	41	45	50
<b>160</b> Ak: 0,0201m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	145	290	434	579	724	869	1013	1158	1303	1448
	Pressure Drop	Pa	1,6	6,6	14,7	26,2	40,9	59,0	80,3	104,8	132,7	163,8
	Throw Vt 0,25	mt	22,1	24,4	26,8	29,2	31,6	33,9	36,3	38,7	41,1	43,4
	Noise Level	dB(A)	8	14	20	25	29	34	38	42	46	50

i Note: the data indicated refer to operation in isothermal conditions



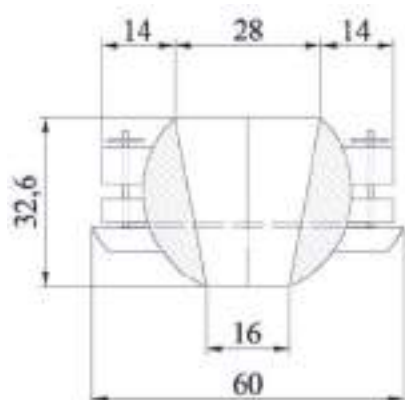


# DMU

Diffuser with individually adjustable micro nozzles with high output velocity and low sound in order to obtain extensive penetration depths of the room to be air conditioned.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

APPLICATIONS	MATERIAL	COLOR	FASTENING	INSTALLATION	ADJUSTMENT
<p>Guarantees airflow in the whole room and not only in the area of the diffuser. The total throw generated by many micro throws guarantees very high induction between the primary and the ambient air. This allows rapidly reducing the velocity and temperature before the air arrives at the occupied area.</p> <p>The micro-nozzle diffusers are available in both version for rectangular ducts or coupleable to the plenum and in the version for circular ducts.</p>	Steel frame, pvc micro nozzles	White RAL 9010 with black pvc nozzles (On request also whites). On request panel painting in non-standard RAL	by means of visible screws	Easy installation, adjustments and maintenance. The diffusers are fastened to the plenum by means of side screws or a central screw.	The airflow distribution is manually adjusted by acting on the nozzles that can move 360 degrees in all directions.



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## TECHNICAL DATA

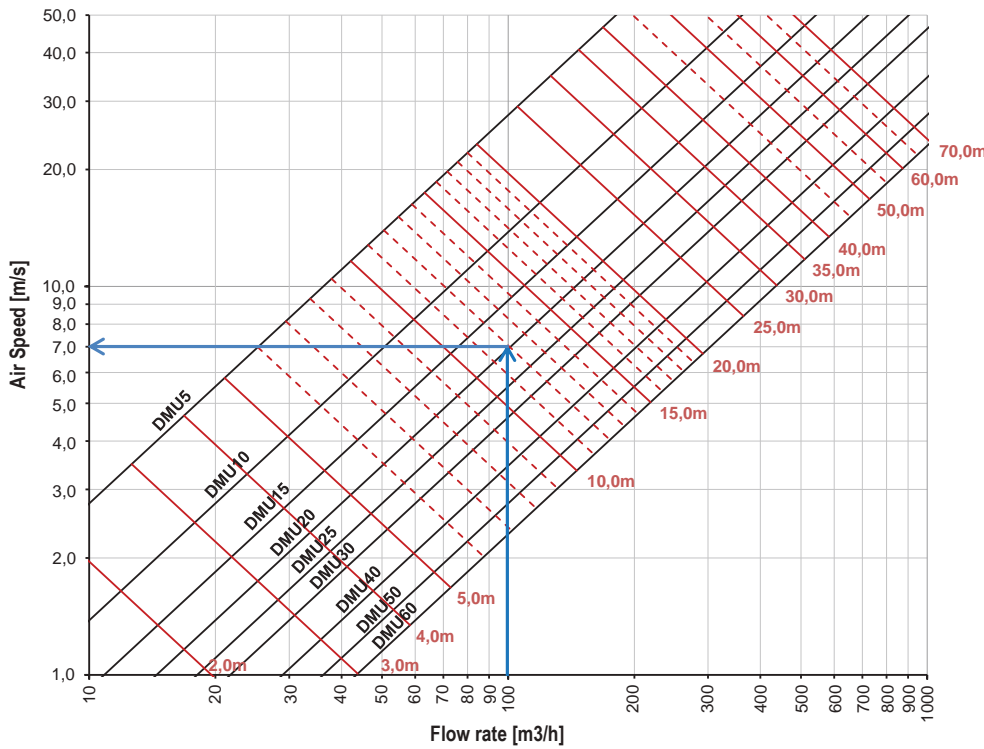
Number of nozzles [n]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DMU base "B" [mm]	150	220	290	360	430	500	570	640	710	780	850	920	990	1060	1130	1200	1270	1340	1410
Number of nozzles [m]	1	2	3	4	5	6	7	8	9	10									
DMU HEIGHT "H" [mm]	80	150	220	290	360	430	500	570	640	710									

# APPLICATIONS

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

## Selection charts

Flow Rate / Air Speed / Throw (Vt.: 0,50m/s)



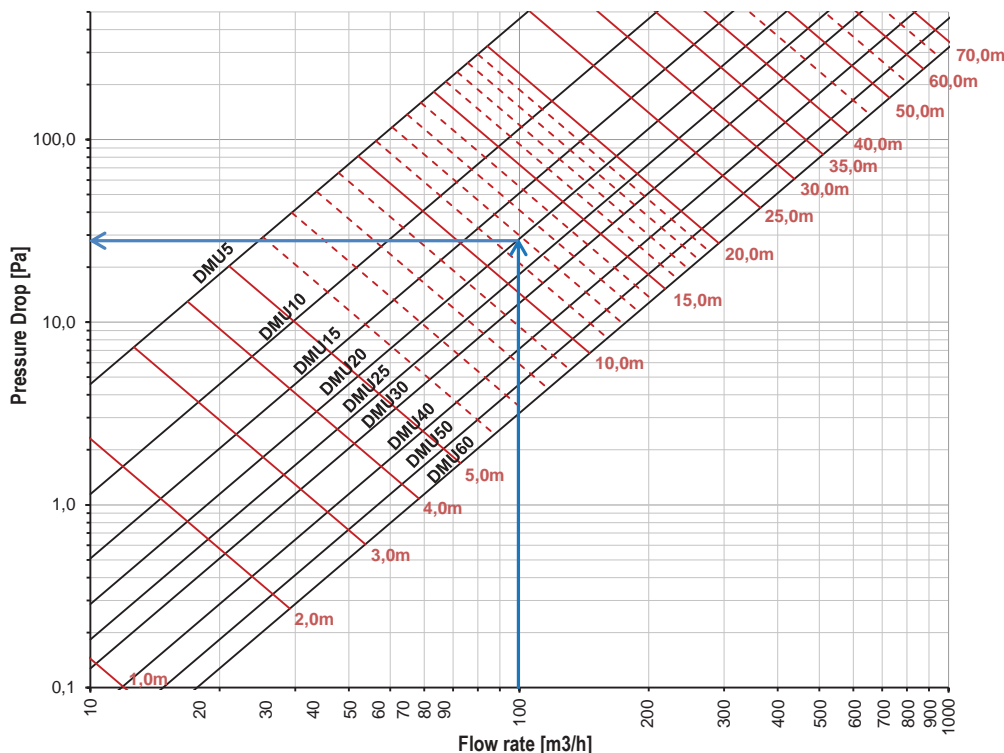
### Diagram 1

The diagram shows the air speed exiting the diffuser based on the flow rate with relative indication of the horizontal launch obtainable with terminal speed (Vt) of 0,50m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

#### CALCULATION (input data)

Flow Rate	100mc
Max. Air Speed	7m/s
Isothermal Horizontal Throw	12mt

Flow Rate / Pressure Drop / Throw (Vt.: 0,50m/s)



#### SELECTION

Model	DMU20
Flow Rate	101 m <sup>3</sup> /h
Isothermal Horizontal Throw	7m/s
Isothermal HoriThrow	12m

### Diagram 2

The diagram shows the diffuser pressure drop based on the flow rate with relative indication of the horizontal launch obtainable with terminal speed (Vt) of 0,50m/s. The horizontal launch data are to be understood in isothermal conditions. For  $\Delta T < 10^{\circ}\text{C}$  multiply the horizontal throw by 0,85.

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



MODEL	DESCRIPTION	U.M.	Vi (m/sec)												
			1	2	3	4	5	6	7	8	9	10	15	20	26
<b>DMU 5</b> Ak: 0,0010m2	Flow Rate	m3/h	4	7	11	14	18	22	25	29	33	36	54	72	94
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	0,9	1,7	2,6	3,4	4,3	5,2	6,0	6,9	7,7	8,6	12,9	17,2	22,4
<b>DMU 10</b> Ak: 0,0020m2	Flow Rate	m3/h	7	14	22	29	36	43	51	58	65	72	109	145	188
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	1,2	2,4	3,6	4,9	6,1	7,3	8,5	9,7	10,9	12,2	18,2	24,3	31,6
<b>DMU 15</b> Ak: 0,0030m2	Flow Rate	m3/h	11	22	33	43	54	65	76	87	98	109	163	217	282
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	1,5	3,0	4,5	6,0	7,4	8,9	10,4	11,9	13,4	14,9	22,3	29,8	38,7
<b>DMU 20</b> Ak: 0,0040m2	Flow Rate	m3/h	14	29	43	58	72	87	101	116	130	145	217	290	376
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	1,7	3,4	5,2	6,9	8,6	10,3	12,0	13,8	15,5	17,2	25,8	34,4	44,7
<b>DMU 25</b> Ak: 0,0050m2	Flow Rate	m3/h	18	36	54	72	90	109	127	145	163	181	271	362	470
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	1,9	3,8	5,8	7,7	9,6	11,5	13,5	15,4	17,3	19,2	28,8	38,5	50,0
<b>DMU 30</b> Ak: 0,0060m2	Flow Rate	m3/h	22	43	65	87	109	130	152	174	195	217	326	434	565
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	2,1	4,2	6,3	8,4	10,5	12,6	14,7	16,9	19,0	21,1	31,6	42,1	54,8
<b>DMU 40</b> Ak: 0,0080m2	Flow Rate	m3/h	29	58	87	116	145	174	203	232	261	290	434	579	753
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	2,4	4,9	7,3	9,7	12,2	14,6	17,0	19,5	21,9	24,3	36,5	48,6	63,2
<b>DMU 50</b> Ak: 0,0100m2	Flow Rate	m3/h	36	72	109	145	181	217	253	290	326	362	543	724	941
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	2,7	5,4	8,2	10,9	13,6	16,3	19,0	21,8	24,5	27,2	40,8	54,4	70,7
<b>DMU 60</b> Ak: 0,0121m2	Flow Rate	m3/h	43	87	130	174	217	261	304	347	391	434	651	869	1129
	Pressure Drop	Pa	0,6	2,4	5,4	9,6	15,0	21,6	29,4	38,4	48,6	60,0	135,0	240,0	405,6
	Horizontal Throw Vt 0,50	mt	3,0	6,0	8,9	11,9	14,9	17,9	20,9	23,8	26,8	29,8	44,7	59,6	77,5

Note: the data indicated refer to operation in isothermal conditions





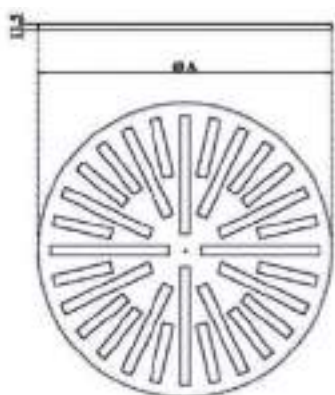
# DAM01C

Helical-effect diffuser with radially 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 suitable for use at high operating temperatures.

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



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## TECHNICAL DATA

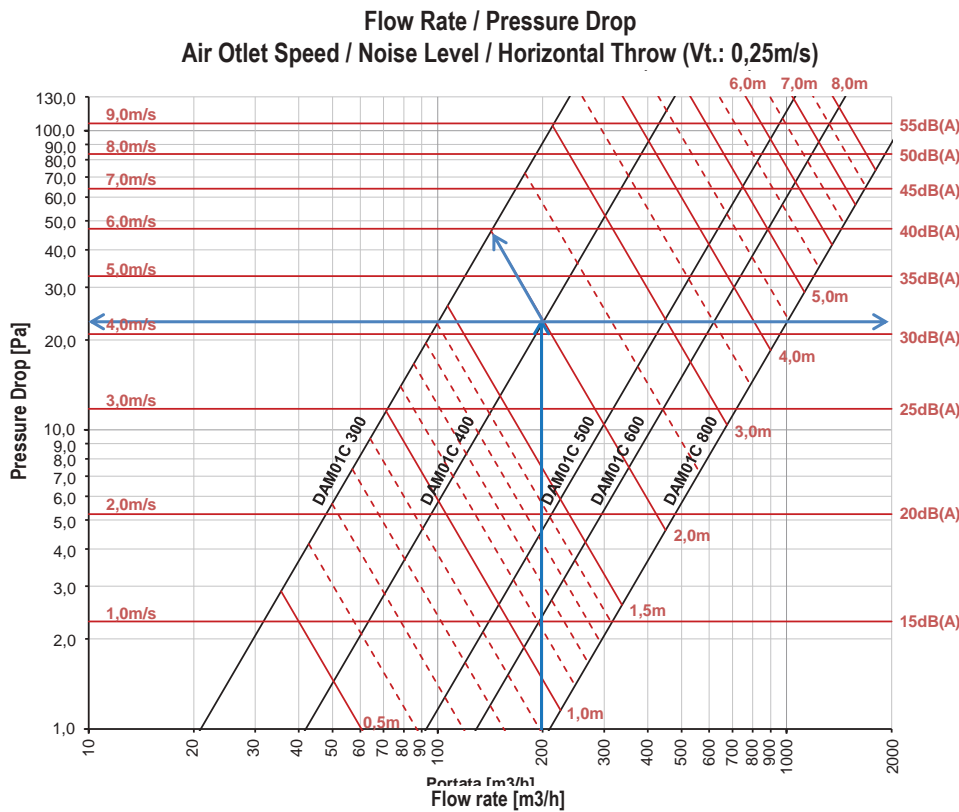
Model	Ø A [mm]
DAM01C 300	295
DAM01C 400	395
DAM01C 500	495
DAM01C 600	595
DAM01C 625	625
DAM01C 800	795

## APPLICATIONS

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

\*on request

### Selection charts



#### 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 <sup>3</sup> /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	2,00m

#### SELECTION

Model	DAM01C 400
Flow Rate	200 m <sup>3</sup> /h
Pressure Drop	+/- 23Pa
Noise Level	33dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,17m/s
Horizontal Isothermal Throw	2,0m

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM01C 300</b> Ak: 0,0067m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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
<b>DAM01C 400</b> Ak: 0,0133m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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
<b>DAM01C 500</b> Ak: 0,0295m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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
<b>DAM01C 600</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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
<b>DAM01 625</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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
<b>DAM01C 800</b> Ak: 0,0665m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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 0,25	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

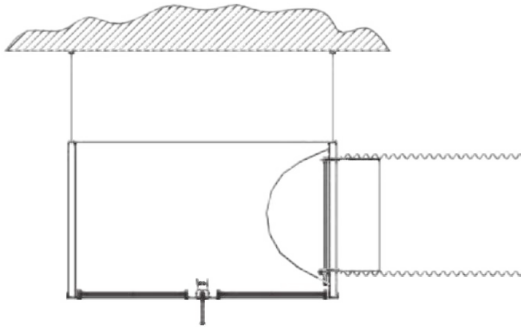


FIG. 1

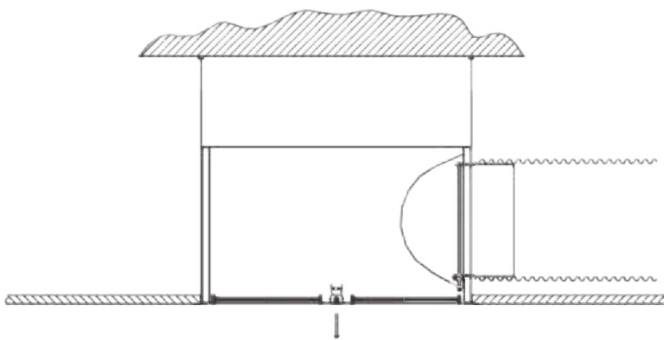
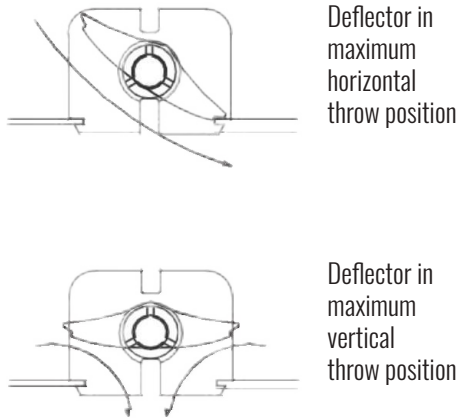


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.



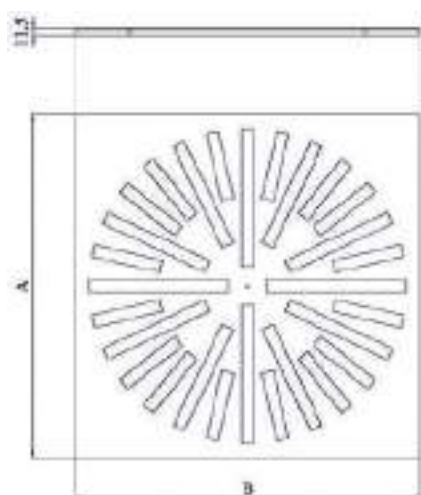
# DAM01

Helical-effect diffuser with radially 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 suitable for use at high operating temperatures.

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

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## TECHNICAL DATA

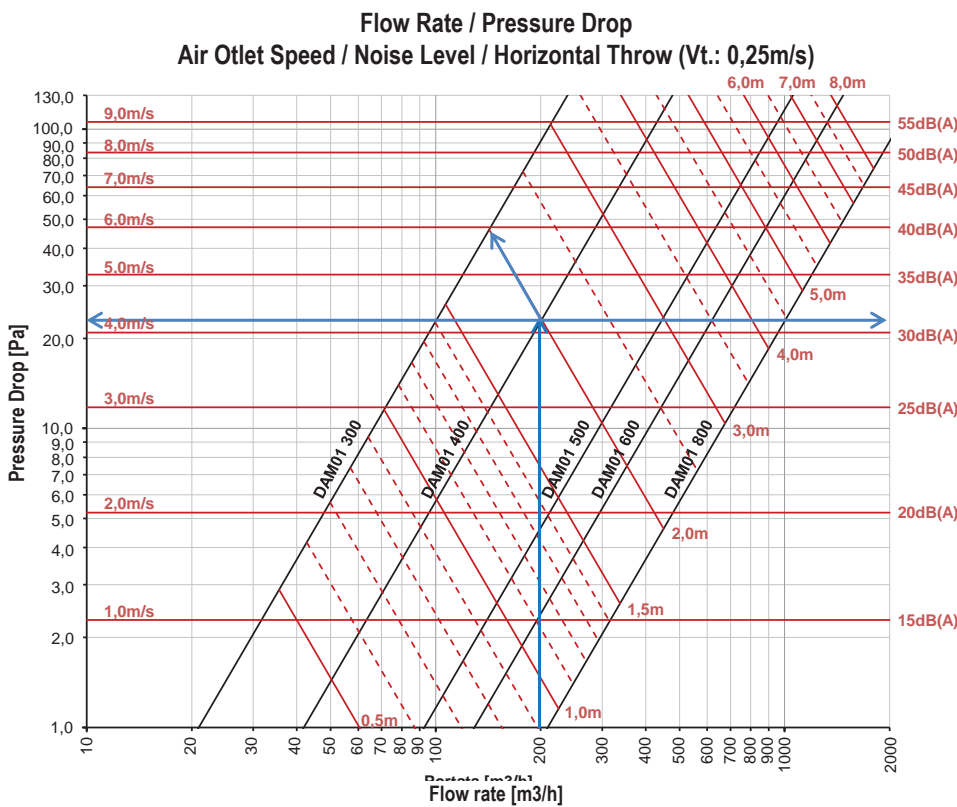
Model	Ø A [mm]	Ø B [mm]
DAM01 300	295	295
DAM01 400	395	395
DAM01 500	495	495
DAM01 600	595	595
DAM01 625	625	625
DAM01 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



#### 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 m³/h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	2,00m

#### SELECTION

Model	DAM01 400
Flow Rate	200 m³/h
Pressure Drop	+/- 23Pa
Noise Level	33dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,17m/s
Horizontal Isothermal Throw	2,0m



MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM01 300</b> Ak: 0,0067m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM01 400</b> Ak: 0,0133m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM01 500</b> Ak: 0,0295m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM01 600</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM01 625</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM01 800</b> Ak: 0,0665m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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

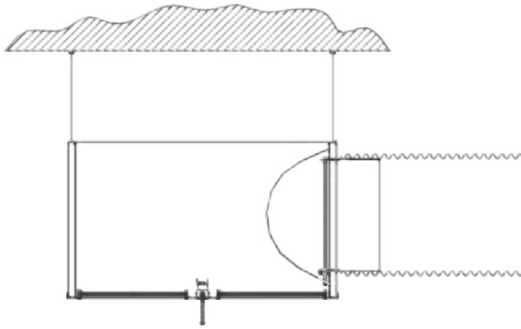


FIG. 1

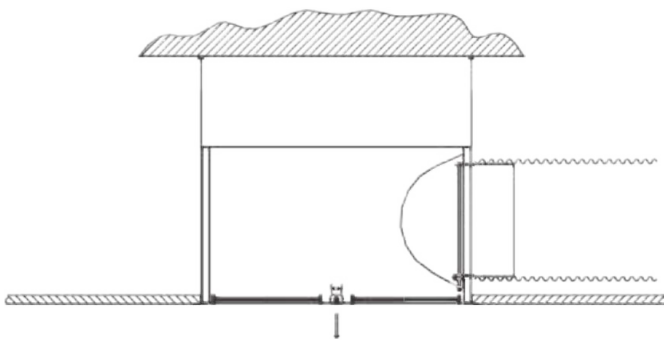
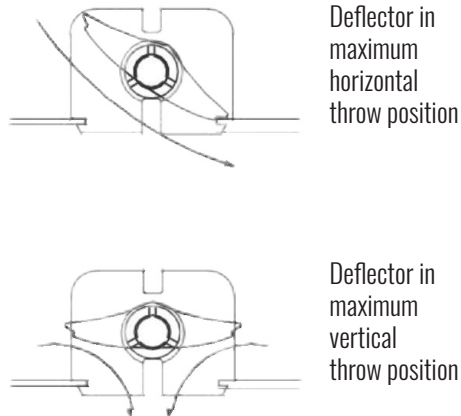


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.

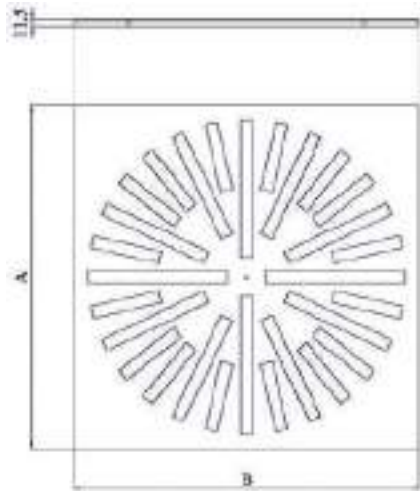


# DAF01

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.	Verniciatura a polveri epossidiche resistente ad urti o abrasioni	RAL 9010 white. On request, coating in non-standard RAL colors.	by means of side screws or a central screw



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## TECHNICAL DATA

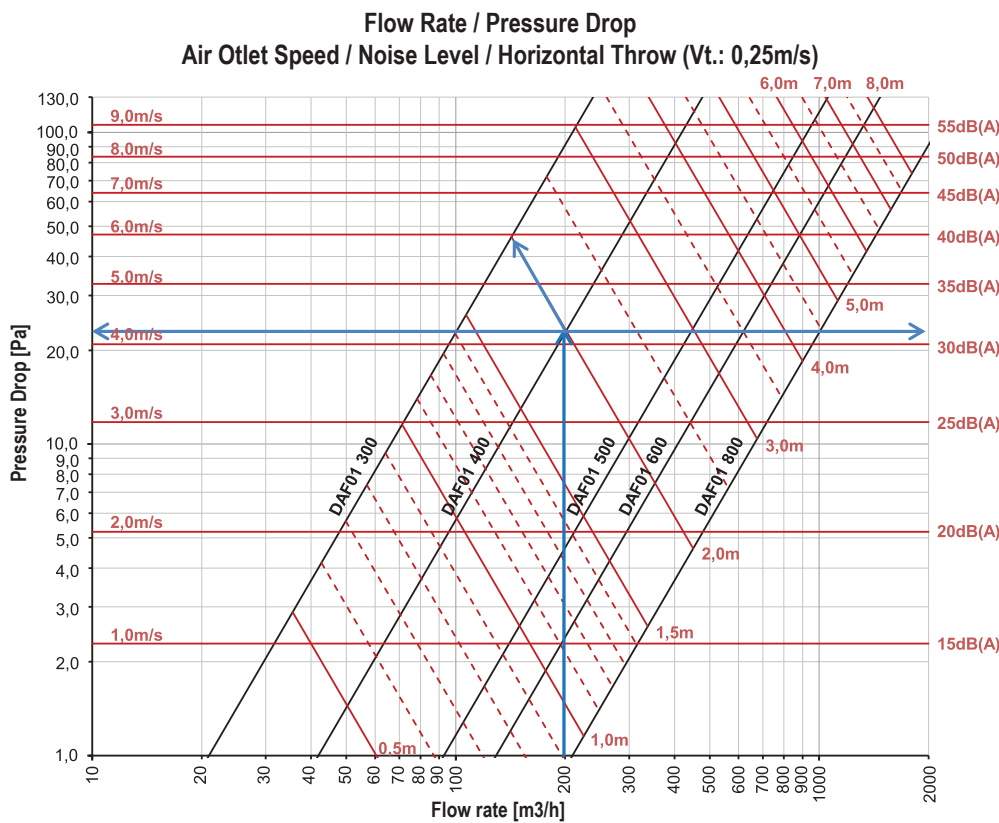
Model	A [mm]	B [mm]
DAF01 300	295	295
DAF01 400	395	395
DAF01 500	495	495
DAF01 600	595	595
DAF01 625	625	625
DAF01 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



#### CALCULATION (input data)

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

#### SELECTION

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

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAF01 300</b> Ak: 0,0067m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAF01 400</b> Ak: 0,0133m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAF01 500</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAF01 600</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAF01 625</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAF01 800</b> Ak: 0,0665m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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

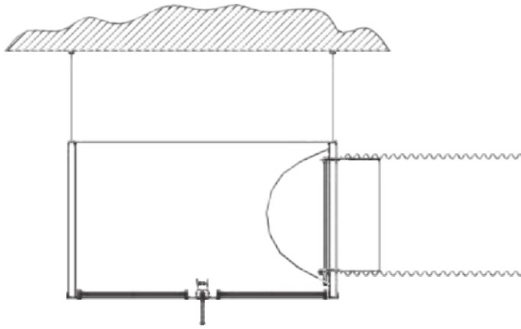


FIG. 1

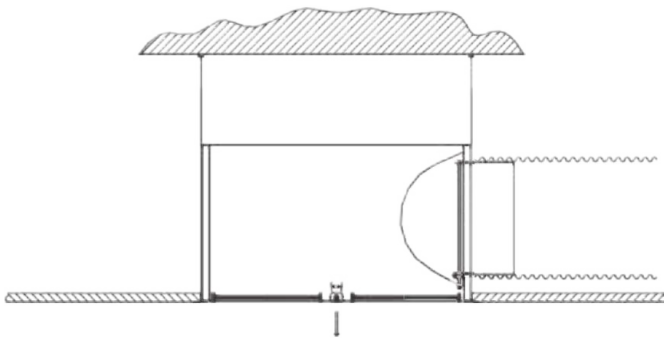
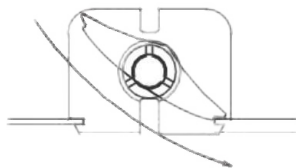
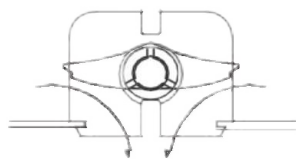


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.

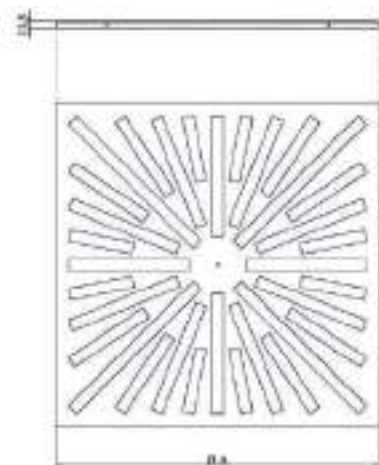


# DAM31

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



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Contributes to credits:  
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## TECHNICAL DATA

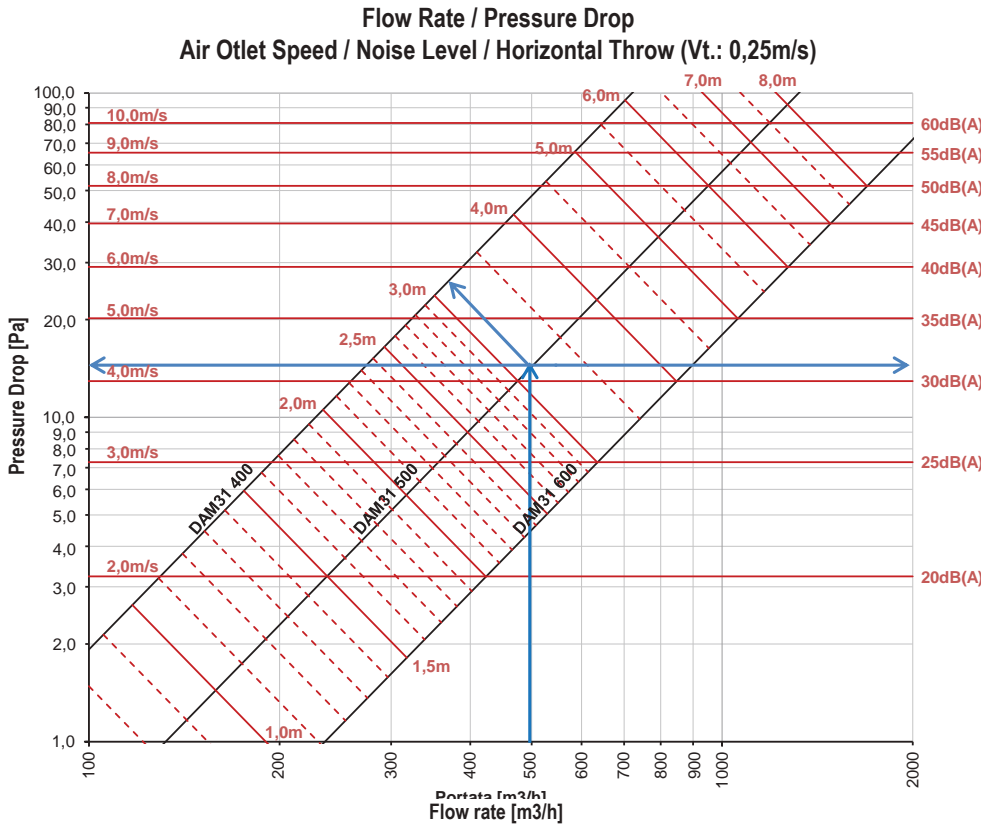
Model	A [mm]	B [mm]
DAM31 300	295	295
DAM31 400	395	395
DAM31 500	495	495
DAM31 600	595	595
DAM31 625	625	625
DAM31 800	795	795

## APPLICATIONS

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

### Selection charts

\*on request



CALCULATION (input data)	
Total Flow Rate	5000 m <sup>3</sup> /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,2m

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

### 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.

MODELLO	DESCRIZIONE	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM31 400</b> Ak: 0,0180m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM31 500</b> Ak: 0,0330m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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
<b>DAM31 600</b> Ak: 0,0589m <sup>2</sup>	Flow Rate	m <sup>3</sup> /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



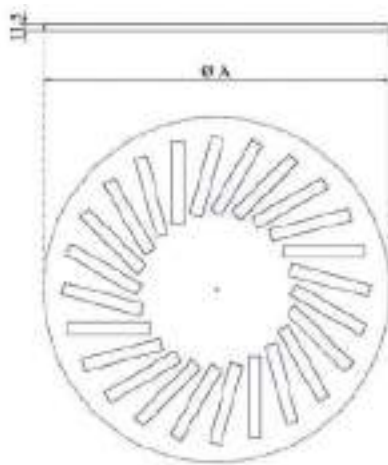


# DAM02C

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



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

## TECHNICAL DATA

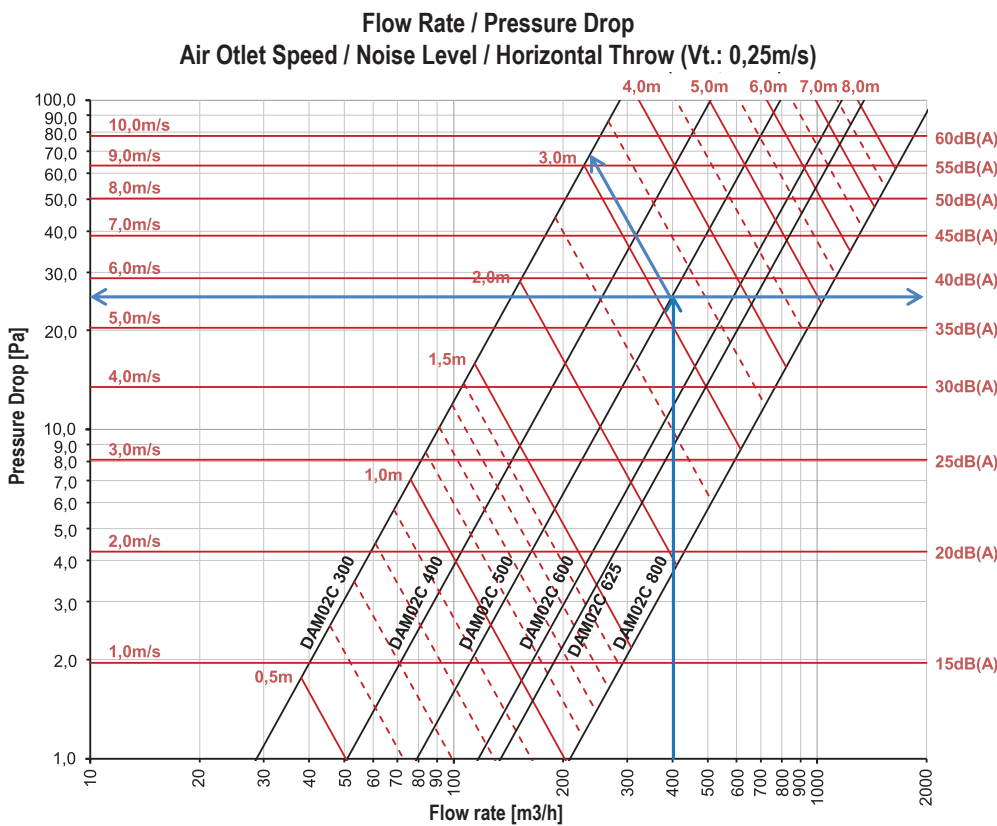
Model	Ø A [mm]
DAM02C 300	295
DAM02C 400	395
DAM02C 500	495
DAM02C 600	595
DAM02C 625	625
DAM02C 800	795

## APPLICATIONS

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

\*on request

### Selection charts



#### CALCULATION (input data)

Total Flow Rate	4000 m <sup>3</sup> /h
Max Noise Level	40dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,1,00m

#### SELECTION

Model	DAM02C 500
Flow Rate	400 m <sup>3</sup> /h
Pressure Drop	+/- 26Pa
Noise Level	+/-37dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 5,29m/s
Horizontal Isothermal Throw	3,1m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM02C 300</b> Ak: 0,0076	Flow Rate	m3/h	27	55	82	109	137	164	192	219	246	274
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02C 400</b> Ak: 0,0135	Flow Rate	m3/h	49	97	146	194	243	292	340	389	437	486
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,0	1,4	1,9	2,4	2,9	3,4	3,8	4,3	4,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02C 500</b> Ak: 0,0210	Flow Rate	m3/h	76	151	227	302	378	454	529	605	680	756
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,6	1,2	1,8	2,4	3,0	3,6	4,2	4,8	5,4	6,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02C 600</b> Ak: 0,0310	Flow Rate	m3/h	112	223	335	446	558	670	781	893	1004	1116
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,5	2,2	2,9	3,6	4,4	5,1	5,8	6,5	7,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02C 625</b> Ak: 0,0357	Flow Rate	m3/h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02C 800</b> Ak: 0,0554	Flow Rate	m3/h	199	399	598	798	997	1197	1396	1596	1795	1994
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	1,0	1,9	2,9	3,9	4,9	5,8	6,8	7,8	8,7	9,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

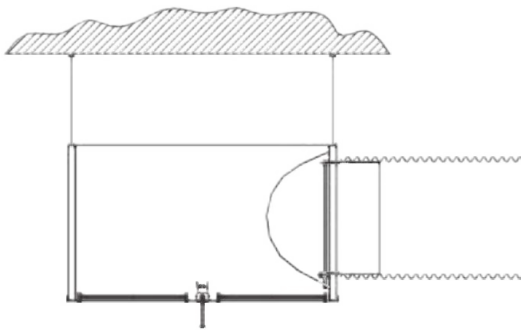


FIG. 1

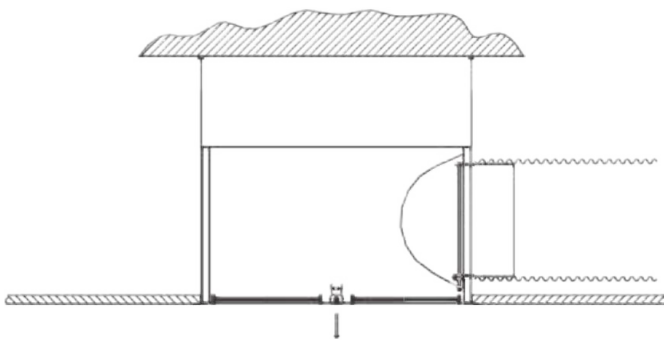
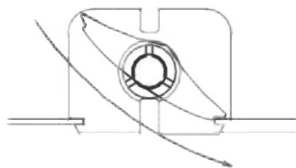
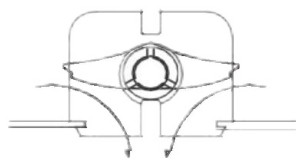


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.



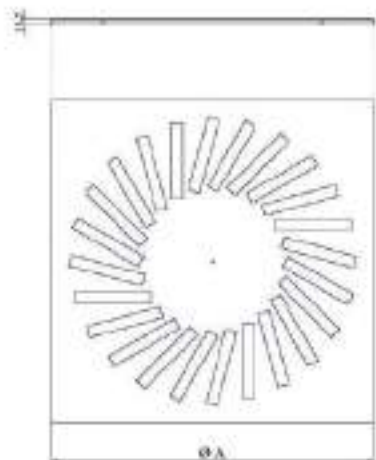
# DAM02

Helical-effect diffuser on square panel 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



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## TECHNICAL DATA

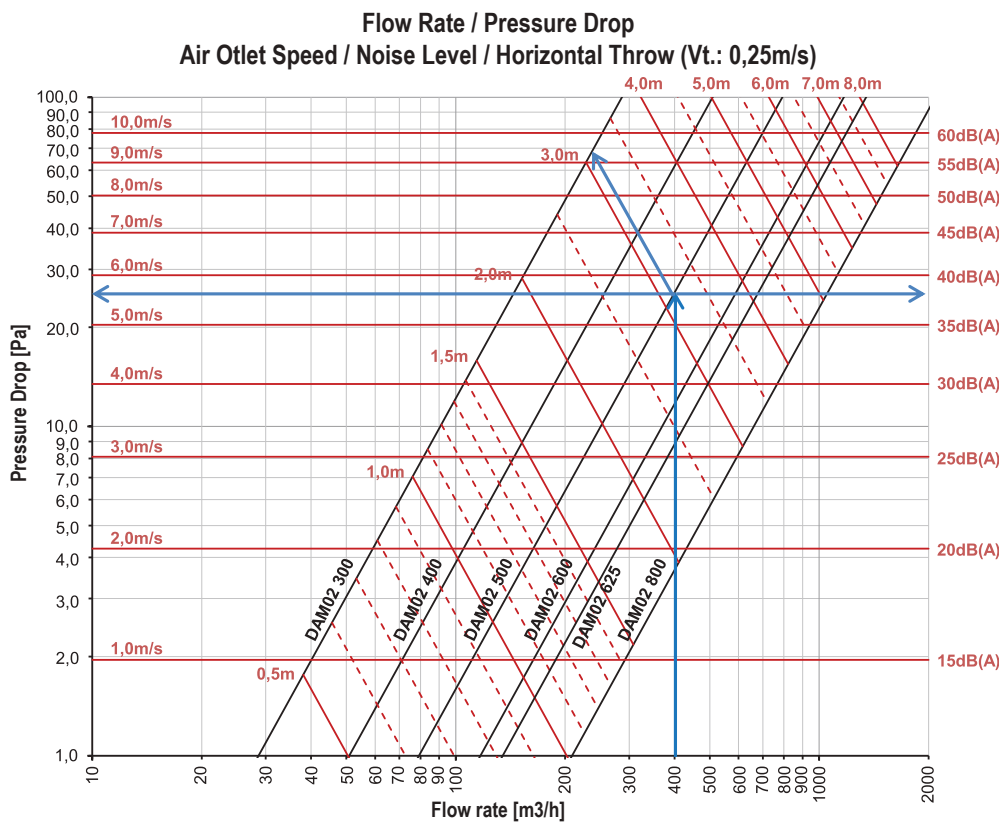
Model	A [mm]	B [mm]
DAM02 300	295	295
DAM02 400	395	395
DAM02 500	495	495
DAM02 600	595	595
DAM02 625	625	625
DAM02 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



CALCULATION (input data)	
Total Flow Rate	4000 m <sup>3</sup> /h
Max Noise Level	40dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,1,00m

SELECTION	
Model	DAM02 500
Flow Rate	400 m <sup>3</sup> /h
Pressure Drop	+/- 26Pa
Noise Level	+/-37dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 5,29m/s
Horizontal Isothermal Throw	3,1m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM02 300</b> Ak: 0,0076	Flow Rate	m3/h	27	55	82	109	137	164	192	219	246	274
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,2	3,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02 400</b> Ak: 0,0135	Flow Rate	m3/h	49	97	146	194	243	292	340	389	437	486
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,0	1,4	1,9	2,4	2,9	3,4	3,8	4,3	4,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02 500</b> Ak: 0,0210	Flow Rate	m3/h	76	151	227	302	378	454	529	605	680	756
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,6	1,2	1,8	2,4	3,0	3,6	4,2	4,8	5,4	6,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02 600</b> Ak: 0,0310	Flow Rate	m3/h	112	223	335	446	558	670	781	893	1004	1116
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,5	2,2	2,9	3,6	4,4	5,1	5,8	6,5	7,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02 625</b> Ak: 0,0357	Flow Rate	m3/h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM02 800</b> Ak: 0,0554	Flow Rate	m3/h	199	399	598	798	997	1197	1396	1596	1795	1994
	Pressure Drop	Pa	1	4	8	15	23	33	45	58	74	91
	Horizontal Throw Vt 0,25m/s	mt	1,0	1,9	2,9	3,9	4,9	5,8	6,8	7,8	8,7	9,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

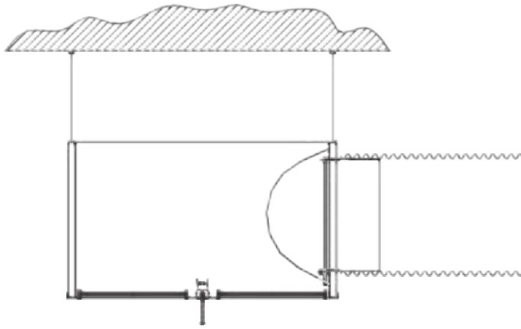


FIG. 1

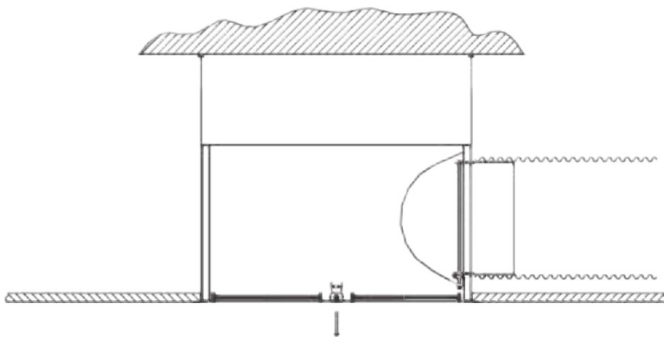
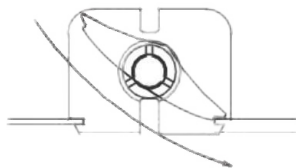
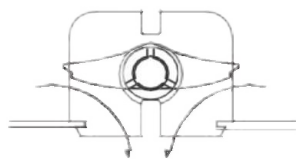


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.



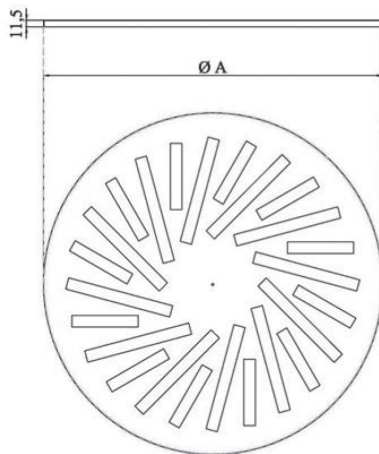


# DAM12C

Linear throw diffuser with orthogonally 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



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## TECHNICAL DATA

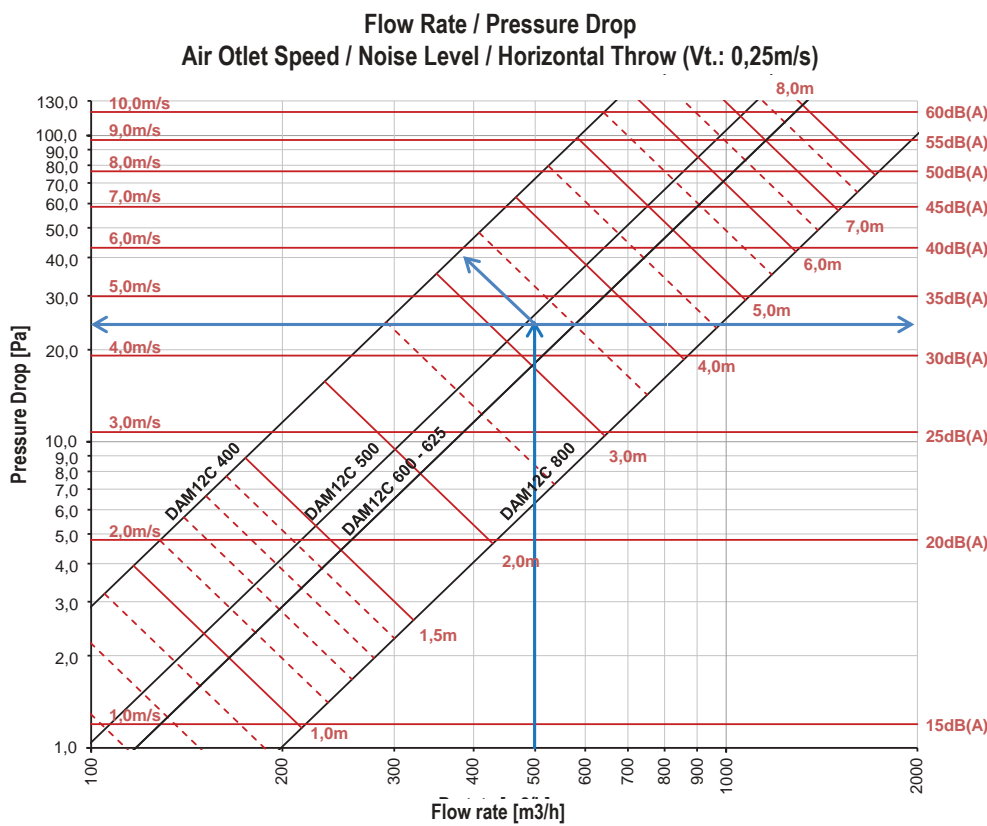
Model	Ø A [mm]
DAM12C 400	395
DAM12C 500	495
DAM12C 600	595
DAM12C 625	625
DAM12C 800	795

## APPLICATIONS

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

\*on request

### Selection charts



CALCULATION (input data)	
Total Flow Rate	5000 m <sup>3</sup> /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,3m

SELECTION	
Model	DAM12C 500
Flow Rate	500 m <sup>3</sup> /h
Pressure Drop	+/- 26Pa
Noise Level	33dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,67m/s
Horizontal Isothermal Throw	3,3m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM12C 400</b> Ak: 0,0178m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	64	129	193	257	321	386	450	514	578	643
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	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
<b>DAM12C 500</b> Ak: 0,0297m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	214	321	428	535	643	750	857	964	1071
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,4	2,1	2,8	3,6	4,3	5,0	5,7	6,4	7,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12C 600</b> Ak: 0,0357m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12C 625</b> Ak: 0,0357m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12C 800</b> Ak: 0,0604m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	218	435	653	870	1088	1306	1523	1741	1958	2176
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	1,0	2,0	3,0	4,1	5,1	6,1	7,1	8,1	9,1	10,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

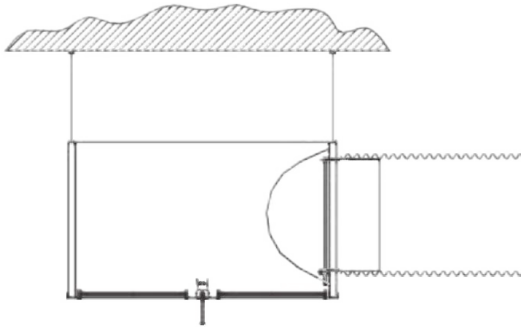


FIG. 1

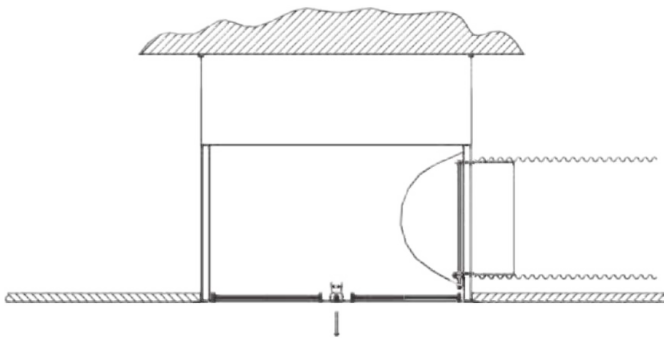
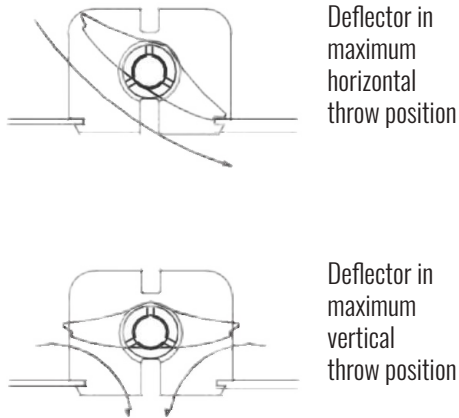


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.



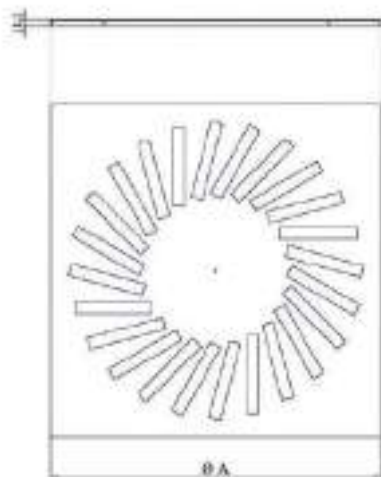
# DAM12

Linear throw diffuser on square panel 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



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## TECHNICAL DATA

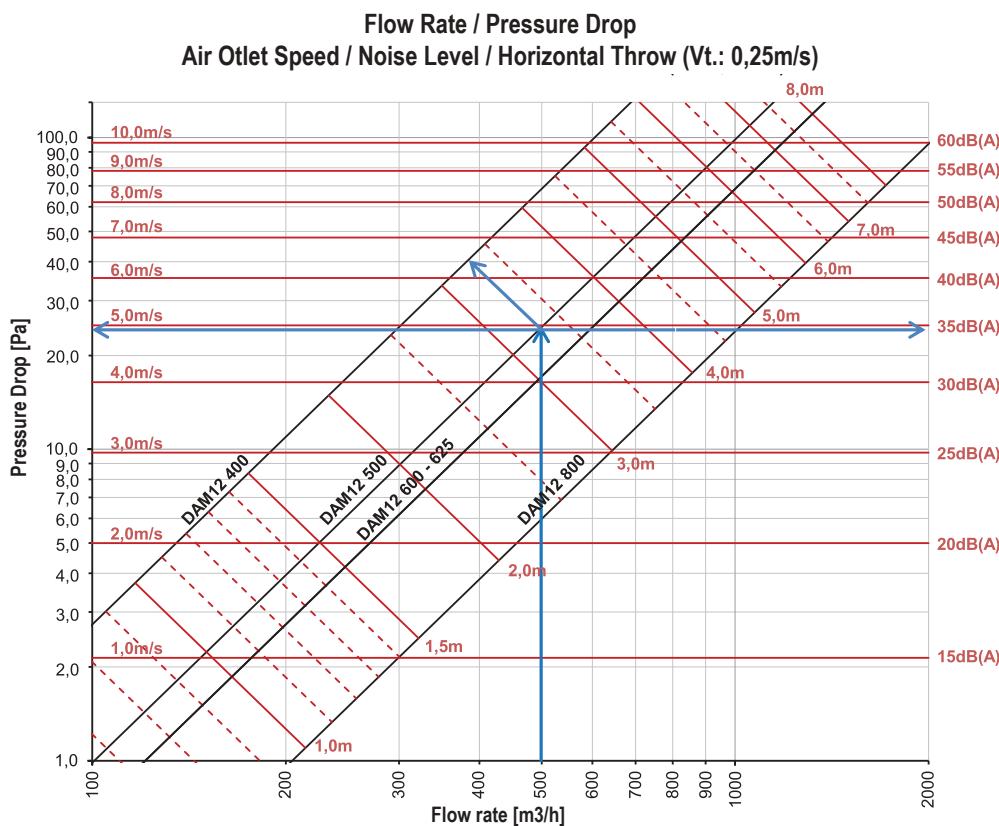
Model	A [mm]	B [mm]
DAM12 400	395	395
DAM12 500	495	495
DAM12 600	595	595
DAM12 625	625	625
DAM12 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



#### CALCULATION (input data)

Total Flow Rate	5000 m <sup>3</sup> /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,3m

#### SELECTION

Model	DAM12 500
Flow Rate	500 m <sup>3</sup> /h
Pressure Drop	+/- 26Pa
Noise Level	+/- 35dB(A)
Inlet Air Speed	Flow Rate/ (Ak * 3600) = 4,67m/s
Horizontal Isothermal Throw	3,3m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM12 400</b> Ak: 0,0178m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	64	129	193	257	321	386	450	514	578	643
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	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
<b>DAM12 500</b> Ak: 0,0297m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	214	321	428	535	643	750	857	964	1071
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,4	2,1	2,8	3,6	4,3	5,0	5,7	6,4	7,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12 600</b> Ak: 0,0357m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12 625</b> Ak: 0,0357m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	129	257	386	514	643	771	900	1028	1157	1285
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,3	3,1	3,9	4,7	5,5	6,2	7,0	7,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM12 800</b> Ak: 0,0604m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	218	435	653	870	1088	1306	1523	1741	1958	2176
	Pressure Drop	Pa	1	5	11	19	30	43	59	76	97	120
	Horizontal Throw Vt 0,25m/s	mt	1,0	2,0	3,0	4,1	5,1	6,1	7,1	8,1	9,1	10,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

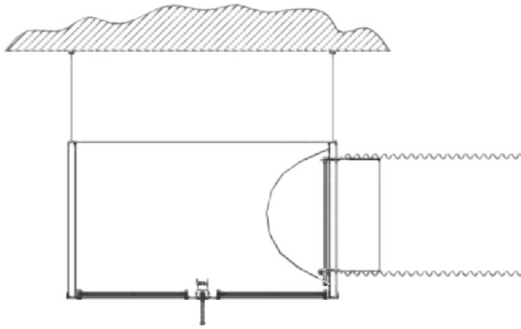


FIG. 1

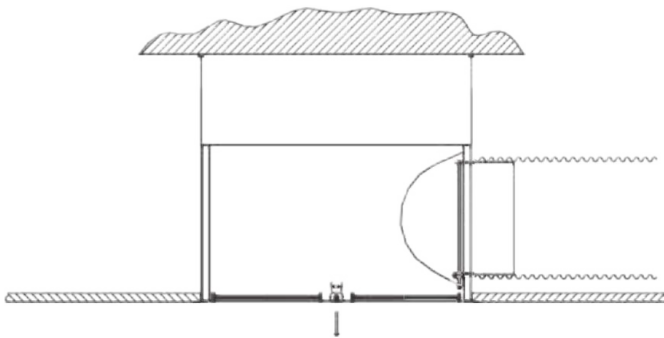
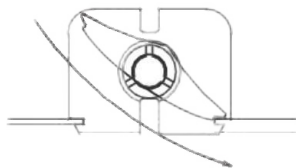
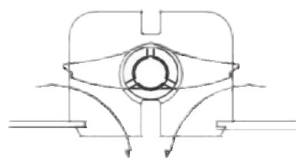


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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

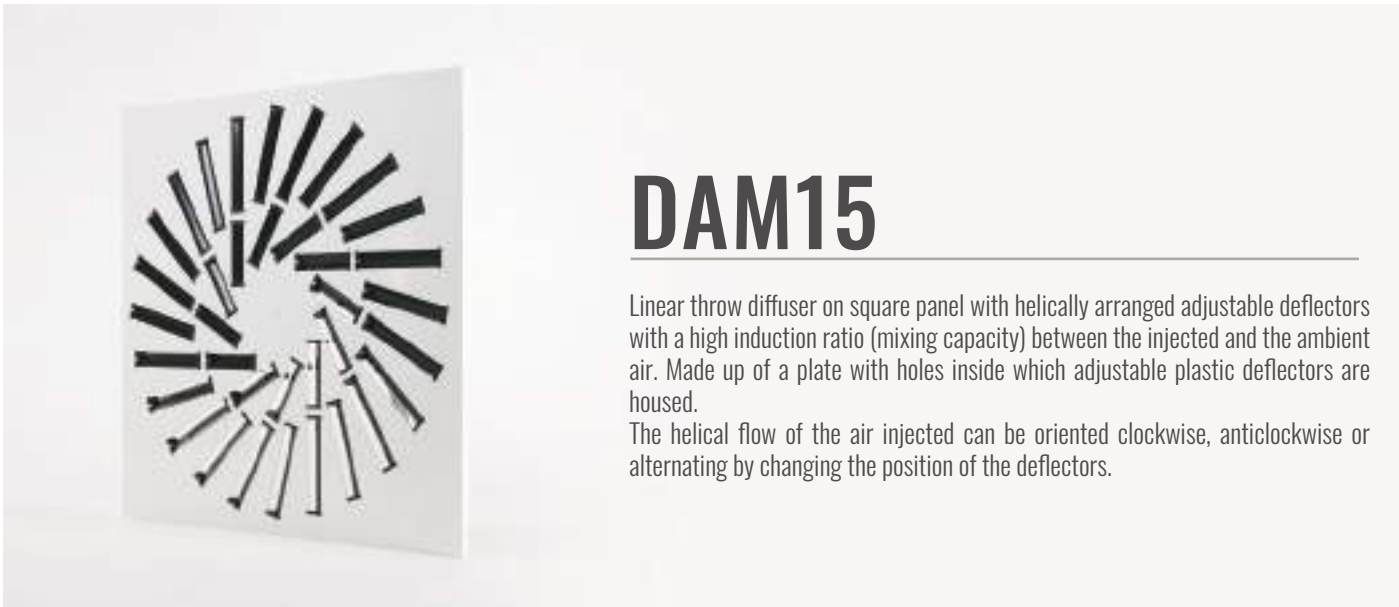
- Hang the false ceiling elements on the ceiling.
- Make a preliminary adjustment to the damper by acting on the pin with Allen screw and tightening the hexagonal-head screw that fastens the pin.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.
- Fit the diffuser using 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.





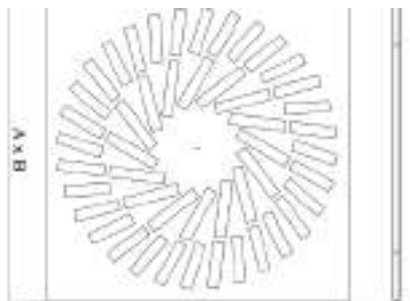
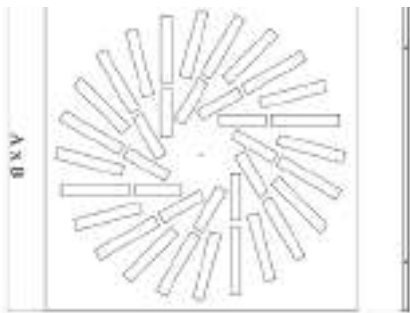
# DAM15

Linear throw diffuser on square panel 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



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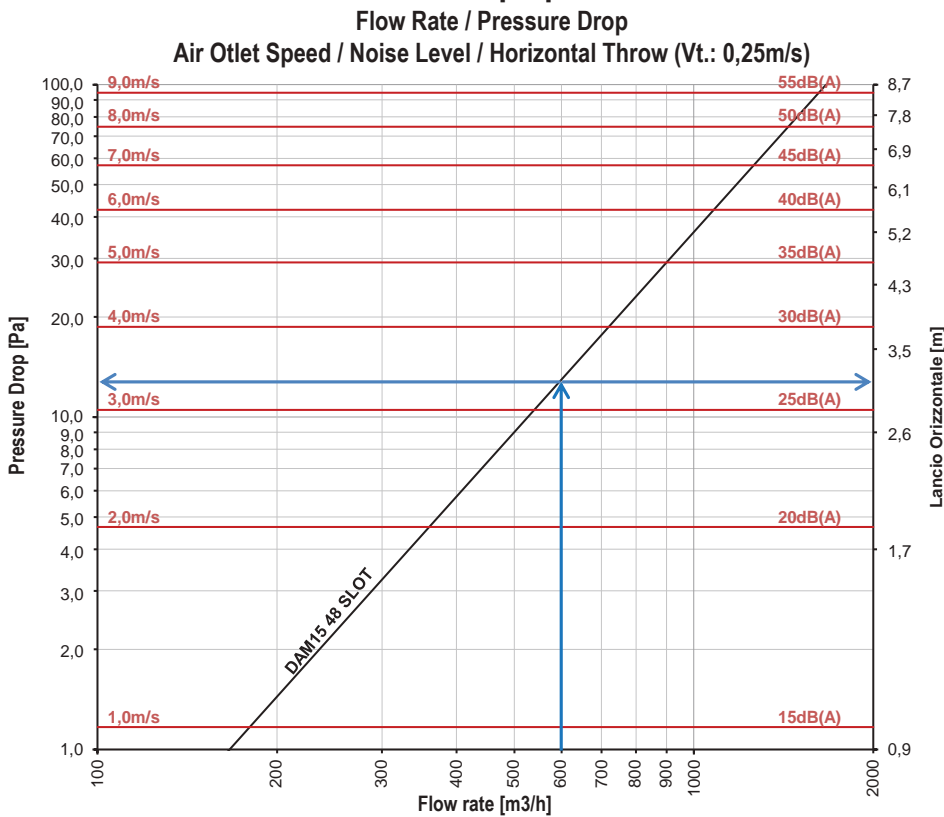
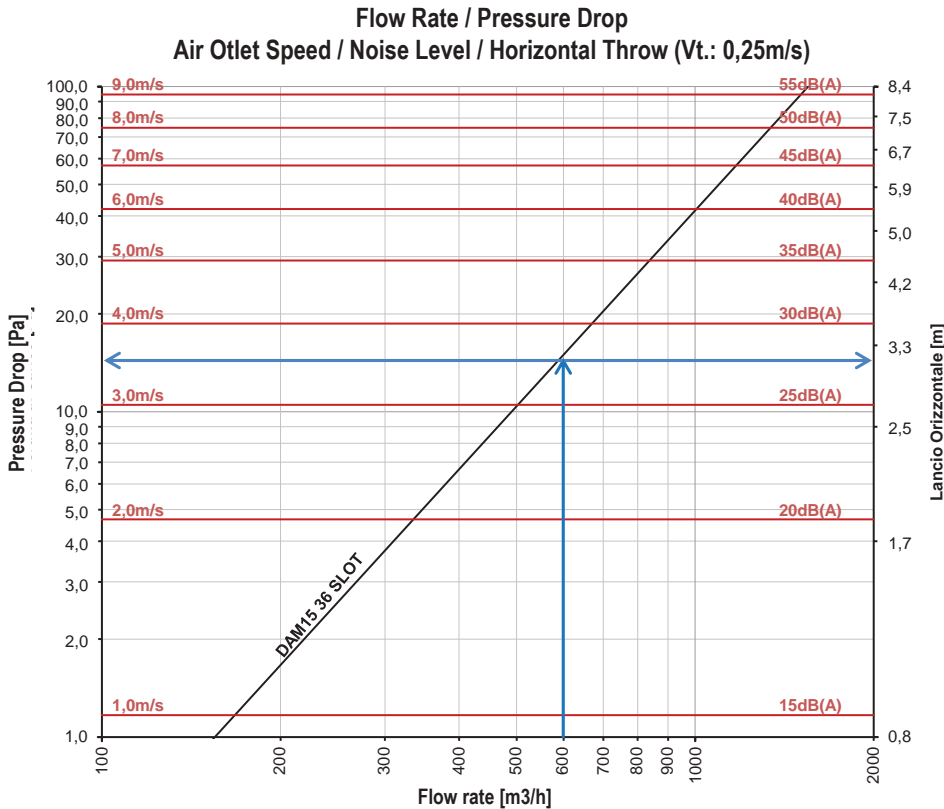
## TECHNICAL DATA

Model	A [mm]	B [mm]
DAM15 36 SLOTS	595	595
DAM15 48 SLOTS	595	595

## APPLICATIONS

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

### Selection charts



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

### Diagram 1

\*on request

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.

CALCULATION (input data)		
Total Flow Rate	6000 m <sup>3</sup> /h	6000 m <sup>3</sup> /h
Max Noise Level	30dB(A)	30dB(A)
Number of diffusers expected	10 pz.	10 pz.
Horizontal Throw	3,2m	3,1m

SELECTION		
Model	DAM15 600 36 SLOTS	DAM15 600 48 SLOTS
Flow Rate	600 m <sup>3</sup> /h	600 m <sup>3</sup> /h
Pressure Drop	+/- 15Pa	+/- 12Pa
Noise Level	27dB(A)	27dB(A)
Inlet Air Speed	Flow Rate / (Ak * 3600) = 3,60m/s	Flow Rate / (Ak * 3600) = 3,33m/s
Isothermal Throw	3,3m	3,1m

### Diagram 2

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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM15 36 SLOTS</b> Ak: 0,0465m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	168	335	503	670	838	1005	1173	1340	1508	1675
	Pressure Drop	Pa	1	5	11	19	29	42	57	75	95	117
	Horizontal Throw Vt 0,25m/s	mt	0,9	1,8	2,7	3,6	4,4	5,3	6,2	7,1	8,0	8,9
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM15 48 SOLTS</b> Ak: 0,0500m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	180	360	540	720	900	1080	1260	1440	1620	1800
	Pressure Drop	Pa	1	5	11	19	29	42	57	75	95	117
	Horizontal Throw Vt 0,25m/s	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

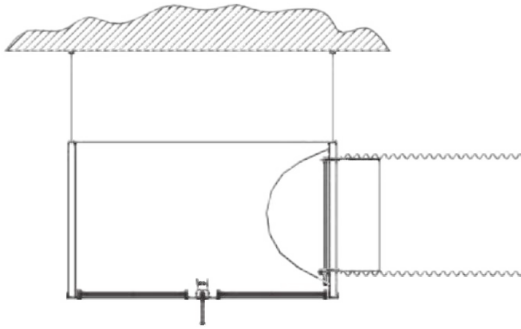


FIG. 1

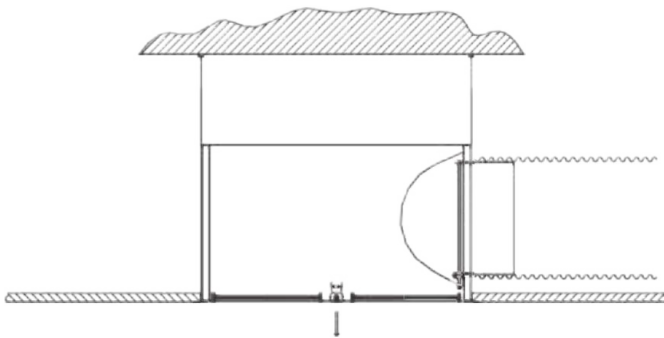
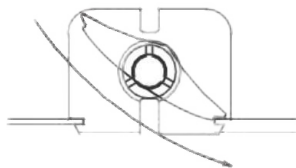
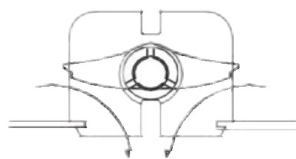


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.

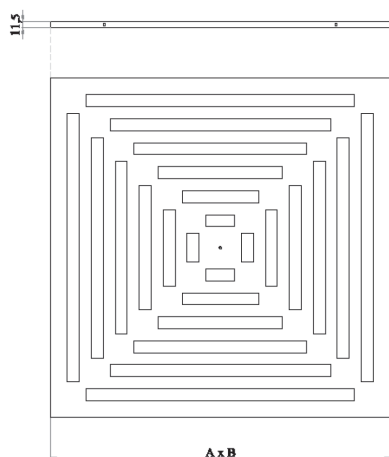


# DAM11

4-ways diffuser with adjustable deflectors with a high induction ratio between the injected and the ambient air. Made up of a plate with holes inside which adjustable plastic deflectors are housed.

## 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



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**WELL**

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MATERIALS, COMMUNITY

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## TECHNICAL DATA

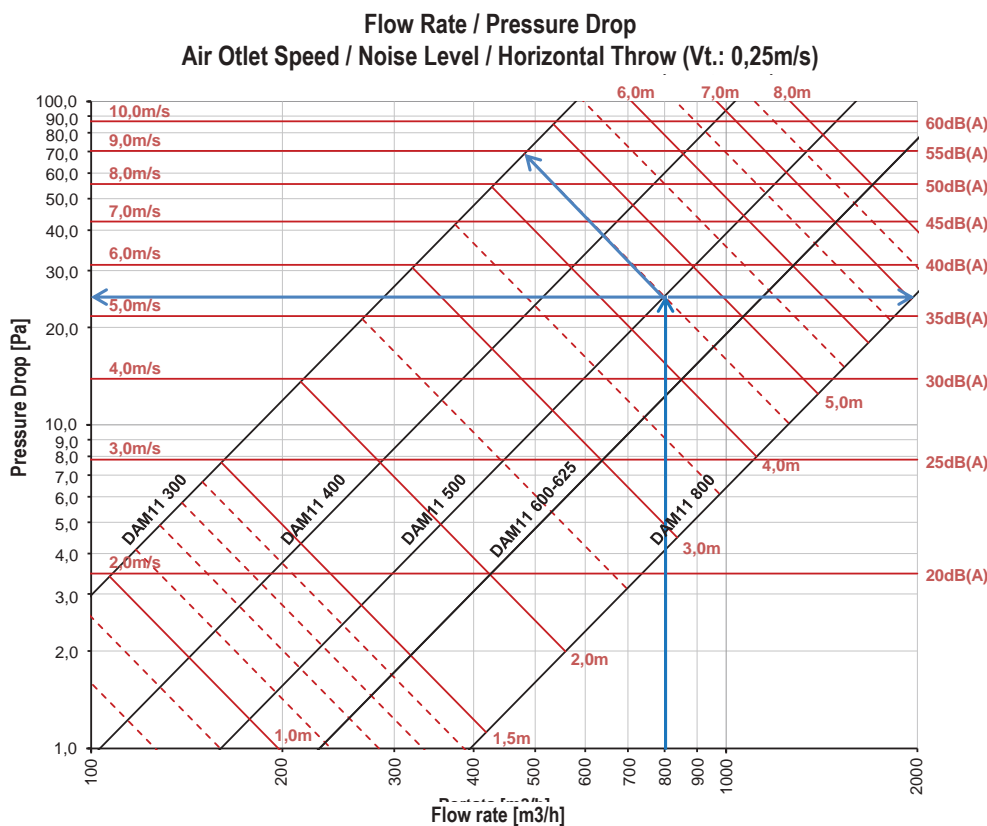
Model	A [mm]	B [mm]
DAM11 300	295	295
DAM11 400	395	395
DAM11 500	495	495
DAM11 600	595	595
DAM11 625	625	625
DAM11 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



#### CALCULATION (input data)

Total Flow Rate	8000 m <sup>3</sup> /h
Max Noise Level	40dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	4,5m

#### SELECTION

Model	DAM11 500
Flow Rate	800 m <sup>3</sup> /h
Pressure Drop	+/- 25Pa
Noise Level	36dB(A)
Inlet Air Speed	Flow Rate / (Ak * 3600) = 5,37m/s
Horizontal Isothermal Throw	4,5m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM11 300</b> Ak: 0,0150m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	108	162	216	270	324	378	432	486	540
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM11 400</b> Ak: 0,0267m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	96	192	288	384	481	577	673	769	865	961
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,3	2,0	2,7	3,4	4,0	4,7	5,4	6,1	6,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM11 500</b> Ak: 0,0414m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	149	298	447	596	745	894	1043	1192	1341	1490
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,7	2,5	3,4	4,2	5,0	5,9	6,7	7,6	8,4
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM11 600</b> Ak: 0,0592m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	213	426	639	852	1066	1279	1492	1705	1918	2131
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	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
<b>DAM11 625</b> Ak: 0,0592m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	213	426	639	852	1066	1279	1492	1705	1918	2131
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	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
<b>DAM11 800</b> Ak: 0,1023m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	368	737	1105	1473	1841	2210	2578	2946	3314	3683
	Pressure Drop	Pa	1	3	8	14	22	31	43	56	70	87
	Horizontal Throw Vt 0,25m/s	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,6	11,9	13,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

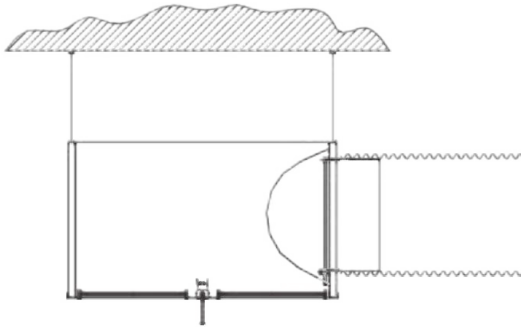


FIG. 1

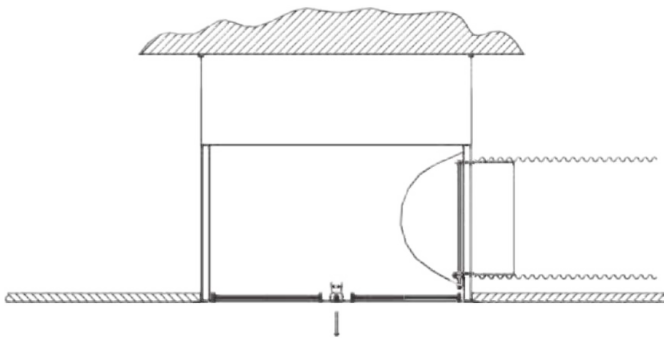
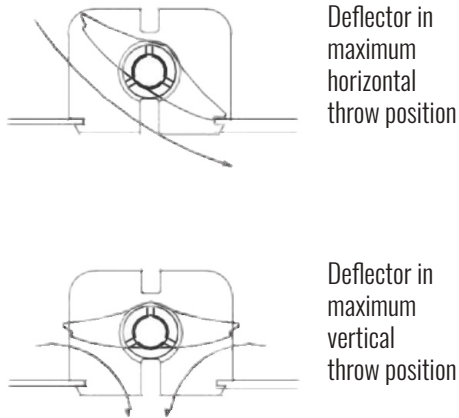


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.



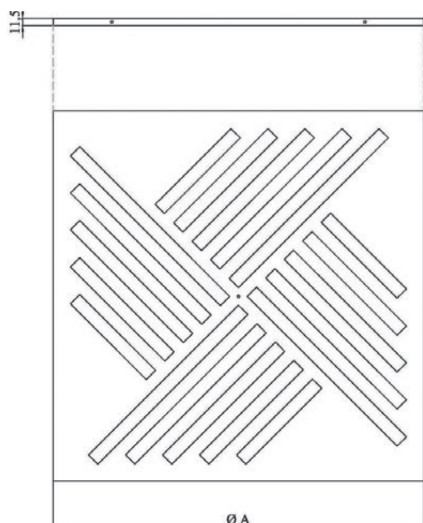


# DAM41

4-ways linear throw diffuser on square panel with helically arranged adjustable deflectors with a high induction ratio between the injected and the ambient air. Made up of a plate with holes inside which adjustable plastic deflectors are housed.

## 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

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## TECHNICAL DATA

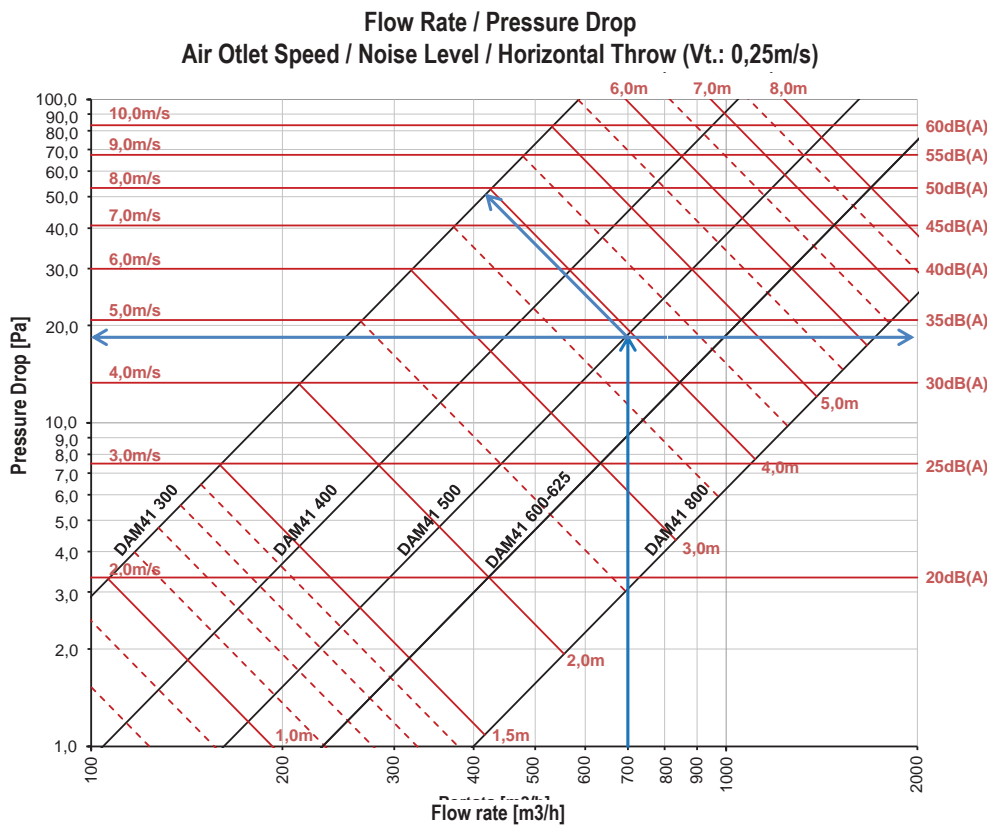
Model	A [mm]	B [mm]
DAM41 300	295	295
DAM41 400	395	395
DAM41 500	495	495
DAM41 600	595	595
DAM41 625	625	625
DAM41 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



CALCULATION (input data)	
Total Flow Rate	7000 m <sup>3</sup> /h
Max Noise Level	35dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,9m

SELECTION	
Model	DAM41 500
Flow Rate	700 m <sup>3</sup> /h
Pressure Drop	+/- 19Pa
Noise Level	34dB(A)
Inlet Air Speed	Flow Rate / (Ak * 3600) = 4,74m/s
Horizontal Isothermal Throw	3,9m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM41 300</b> Ak: 0,0148m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	53	107	160	214	267	321	374	428	481	535
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM41 400</b> Ak: 0,0264m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	95	190	285	381	476	571	666	761	856	952
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,3	2,0	2,7	3,4	4,0	4,7	5,4	6,0	6,7
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM41 500</b> Ak: 0,0410m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	148	295	443	590	738	885	1033	1180	1328	1475
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	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
<b>DAM41 600</b> Ak: 0,0586m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	211	422	633	844	1055	1266	1477	1688	1899	2110
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	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
<b>DAM41 625</b> Ak: 0,0586m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	211	422	633	844	1055	1266	1477	1688	1899	2110
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	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
<b>DAM41 800</b> Ak: 0,1013m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	365	729	1094	1458	1823	2187	2552	2917	3281	3646
	Pressure Drop	Pa	1	3	7	13	21	30	41	53	67	83
	Horizontal Throw Vt 0,25m/s	mt	1,3	2,6	3,9	5,3	6,6	7,9	9,2	10,5	11,8	13,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

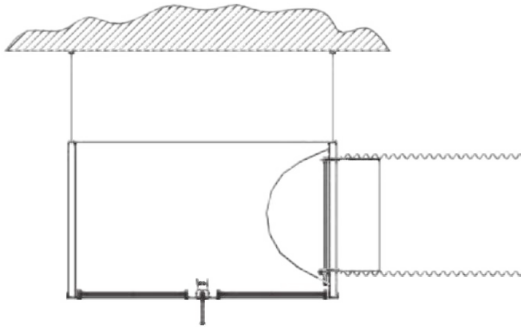


FIG. 1

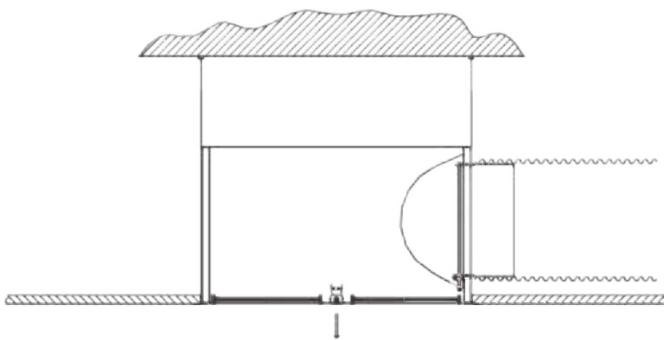
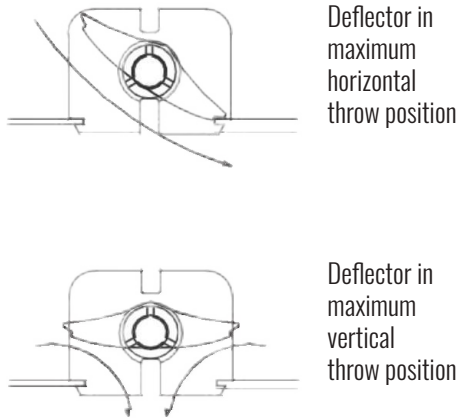


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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.

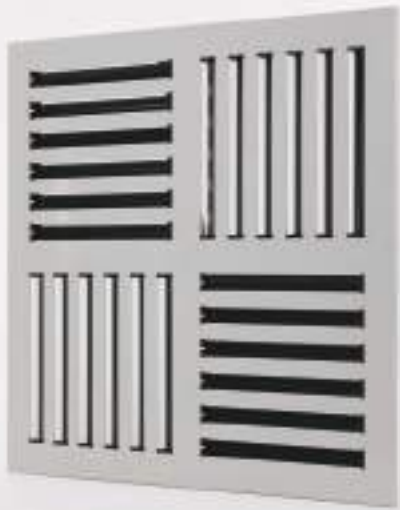
### Fig. 2 Installation on the false ceiling

- 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.

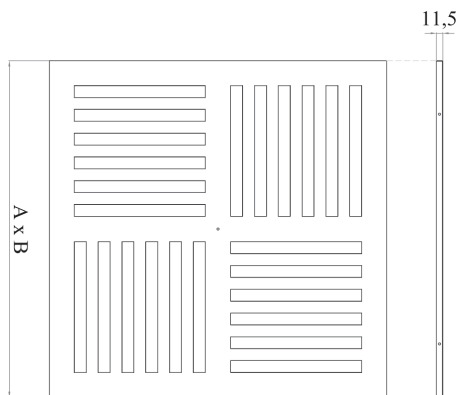


# DAM51

Linear throw diffuser on square panel with adjustable deflectors with a high induction ratio between the injected and the ambient air. Made up of a plate with holes inside which adjustable plastic deflectors are housed. Individually orientable for each side/direction.

## 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



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## TECHNICAL DATA

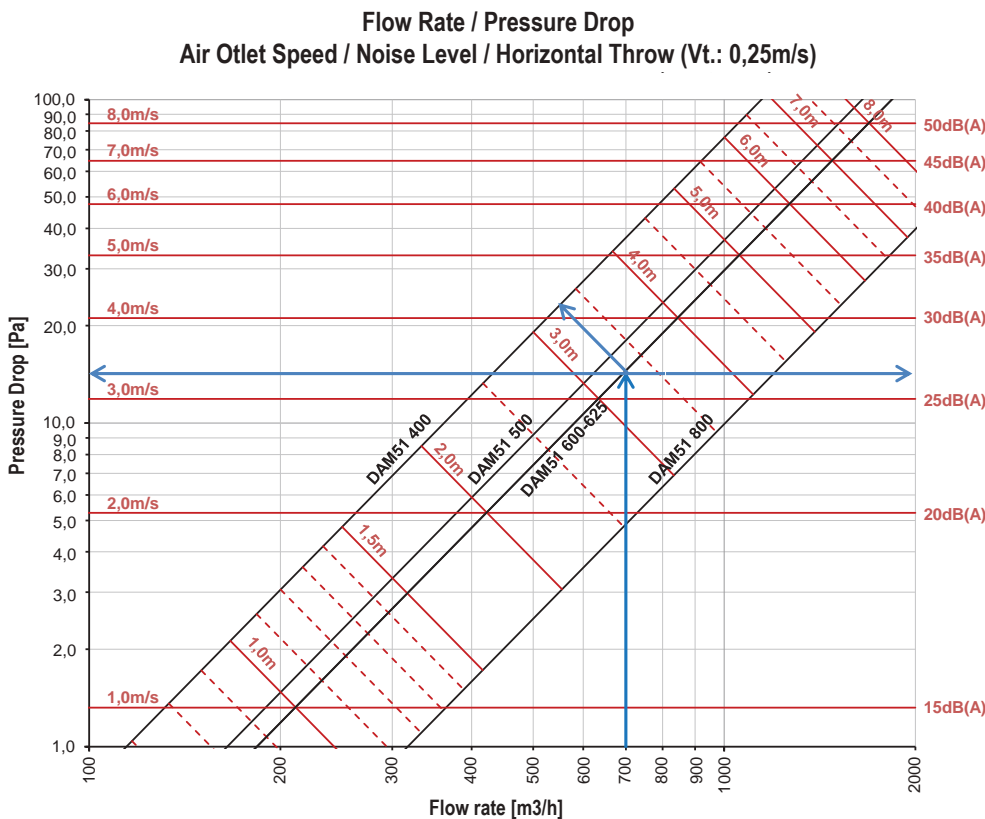
Model	A [mm]	B [mm]
DAM51 400	395	395
DAM51 500	495	495
DAM51 600	595	595
DAM51 625	625	625
DAM51 800	795	795

## APPLICATIONS

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

\*on request

### Selection charts



CALCULATION (input data)	
Total Flow Rate	7000 m <sup>3</sup> /h
Max Noise Level	30dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	3,3m

SELECTION	
Model	DAM51 600
Flow Rate	700 m <sup>3</sup> /h
Pressure Drop	+/- 16Pa
Noise Level	27dB(A)
Inlet Air Speed	Flow Rate / (Ak * 3600) = 3,31m/s
Horizontal Isothermal Throw	3,3m

### 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.

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM51 400</b> Ak: 0,0365m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	132	263	395	526	658	789	921	1052	1184	1315
	Pressure Drop	Pa	1	5	12	21	33	48	65	84	107	132
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,6	2,4	3,2	3,9	4,7	5,5	6,3	7,1	7,9
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM51 500</b> Ak: 0,0526m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	190	379	569	758	948	1137	1327	1516	1706	1895
	Pressure Drop	Pa	1	5	12	21	33	48	65	84	107	132
	Horizontal Throw Vt 0,25m/s	mt	0,9	1,9	2,8	3,8	4,7	5,7	6,6	7,6	8,5	9,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
<b>DAM51 600</b> Ak: 0,0586m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	211	422	633	844	1055	1266	1477	1688	1899	2110
	Pressure Drop	Pa	1	5	12	21	33	48	65	84	107	132
	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
<b>DAM51 625</b> Ak: 0,0586m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	211	422	633	844	1055	1266	1477	1688	1899	2110
	Pressure Drop	Pa	1	5	12	21	33	48	65	84	107	132
	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
<b>DAM51 800</b> Ak: 0,1013m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	365	729	1094	1458	1823	2187	2552	2917	3281	3646
	Pressure Drop	Pa	1	5	12	21	33	48	65	84	107	132
	Horizontal Throw Vt 0,25m/s	mt	1,3	2,6	3,9	5,3	6,6	7,9	9,2	10,5	11,8	13,1
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60

Note: the data indicated refer to operation in isothermal conditions

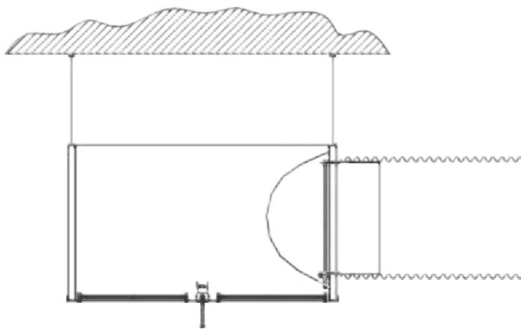


FIG. 1

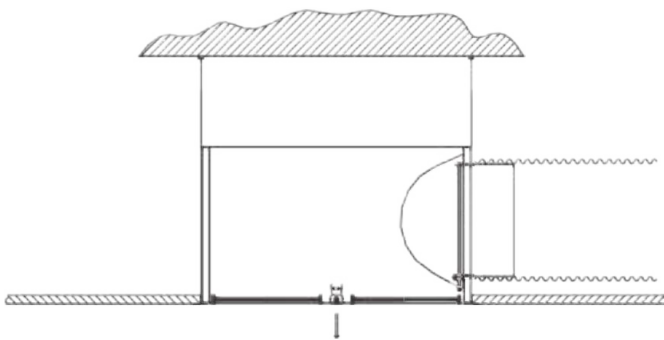
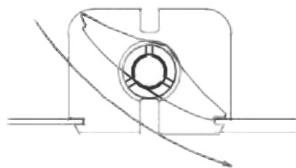
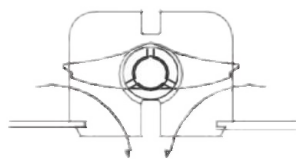


FIG. 2



Deflector in maximum horizontal throw position



Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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

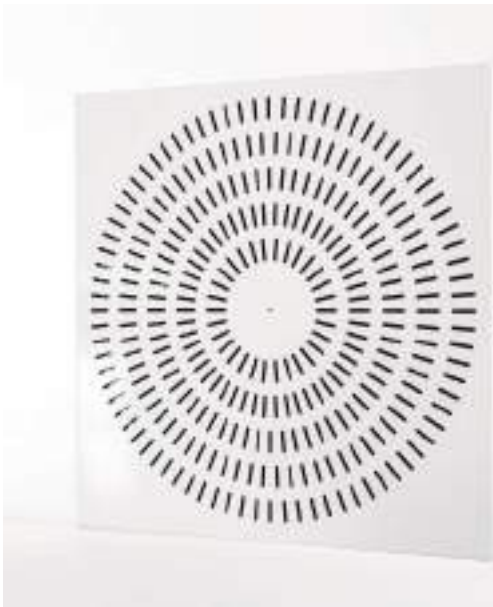
- Hang the false ceiling elements on the ceiling.
- Make a preliminary adjustment to the damper by acting on the pin with Allen screw and tightening the hexagonal-head screw that fastens the pin.
- Fit the flexible duct on the connecting sleeve and fasten it with a hose clamp.
- Fit the diffuser using 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.





# DAM71

Radial-effect diffuser on square panel without deflectors with a high induction ratio between the injected and the ambient air. To be used for delivery and return.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING	INSTALLATION
2,5 to 4 m	Radial-effect diffusers. This type of diffuser allows a high induction ratio (mixing capacity) between the injected and the ambient air. It is used for air delivery and return although not having any deflectors. This occurs through the special slots that provide high air flow and good radial-effect distribution. The DAM71 diffuser can also be used for air return. The perforated panel is made of sheet steel coated with epoxy resin powder electrostatically applied and furnace dried. This type of coating is resistant to impact and abrasion and maintains the aesthetic features unaltered over time.	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	Easy installation, adjustments and maintenance. The diffusers are fastened to the plenum by means of side screws or a central screw.

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## TECHNICAL DATA

Model	A [mm]	B [mm]
DAM71 300	295	295
DAM71 400	395	395
DAM71 500	495	495
DAM71 600	595	595

## APPLICATIONS

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

\*on request

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM71 300</b> Ak: 0,0107m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	38	77	115	154	192	231	269	308	346	385
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM71 400</b> Ak: 0,0192m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	69	138	207	276	345	414	483	552	621	690
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM71 500</b> Ak: 0,0301m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	108	217	325	434	542	650	759	867	975	1084
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM71 600</b> Ak: 0,0435m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	157	313	470	626	783	940	1096	1253	1409	1566
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions



# DAM81

Diffuser on square perforated sheet steel panel without deflectors. To be used for air return.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
2,5 to 4 m	This type of diffuser is used exclusively for air return. It consists of a perforated panel that allows air passage of about 50% with respect to the actual dimensions. It is available as standard in the panel dimensions 300-400-500-600.	Pannello in acciaio	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

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## TECHNICAL DATA

Model	A [mm]	B [mm]
DAM81 300	295	295
DAM81 400	395	395
DAM81 500	495	495
DAM81 600	595	595

## APPLICATIONS

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

\*on request

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM81 300</b> Ak: 0,0435m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	157	313	470	627	783	940	1096	1253	1410	1566
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM81 400</b> Ak: 0,0780m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	281	562	843	1123	1404	1685	1966	2247	2528	2809
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM81 500</b> Ak: 0,1230m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	443	886	1329	1771	2214	2657	3100	3543	3986	4429
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM81 600</b> Ak: 0,1770m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	637	1275	1912	2549	3186	3824	4461	5098	5736	6373
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions



# DAM61

Inspectable diffuser on square panel with adjustable deflectors with a high induction ratio between the injected and the ambient air.

(choice of models DAM01 DAM31 DAM02 DAM12 DAM15 DAM11 DAM41 DAM51)

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING	INSTALLATION
2,5 to 4 m	Questo tipoThe basic characteristic of this type of diffuser is that it is inspectable. It is a great help to save time when routine or extraordinary maintenance needs to be carried out on the air-conditioning system. It consists of a frame in which the panel is fitted with side fastening holes, and a special hooking system allows opening the diffuser with just one light touch if necessary. The flow of the air injected can be oriented clockwise, anticlockwise or alternating by changing the position of the deflectors. The entire standard DAM range available in the catalogue can be fitted in this type of frame. The flow rate is just below standard, as the panel is slightly smaller. The DAM61 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. The movable deflectors complete with fin, coupling and support are made of plastic suitable for use at high operating temperatures. The perforated panel is made of sheet steel coated with epoxy resin powder electrostatically applied and furnace dried. This type of coating is resistant to impact and abrasion and maintains the aesthetic features unaltered over time.	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	Easy installation, adjustments and maintenance. The diffusers are fastened to the plenum by means of side screws or a central screw.

## GREEN BUILDING

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## TECHNICAL DATA

Model	A [mm]	B [mm]
DAM61 400	395	395
DAM61 500	495	495
DAM61 600	595	595

## APPLICATIONS

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

\*on request



# DAM21R

Linear throw diffuser on rectangular panel with orthogonally 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.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
2,5 to 4 m	The DAM21 diffuser can be used in room heating and cooling for air delivery and 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

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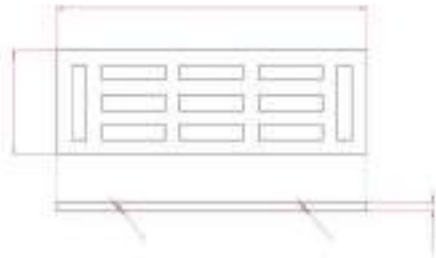
## APPLICATIONS

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

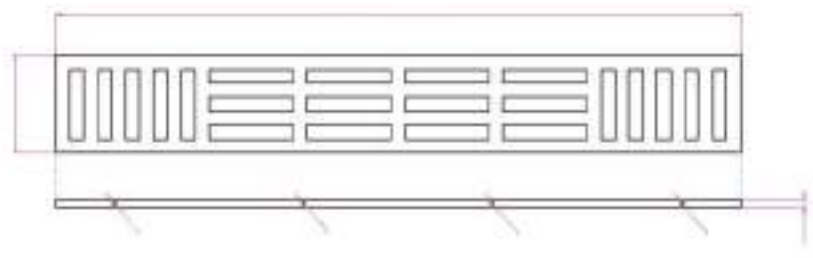
\*on request

STANDARD MODELS AVAILABLE

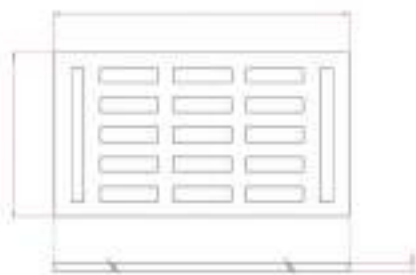
DAM 21 115x425



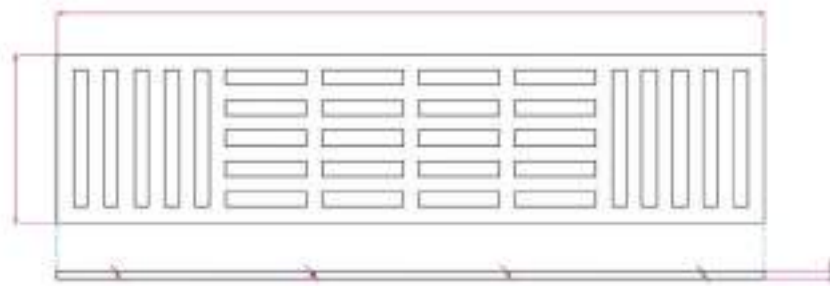
DAM 21 115x825



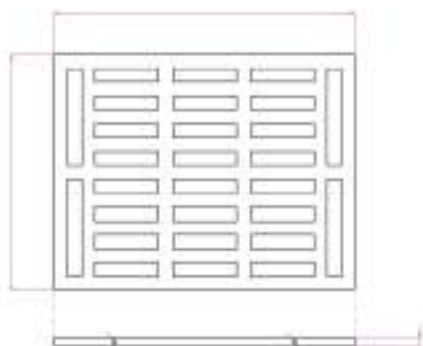
DAM 21 215x425



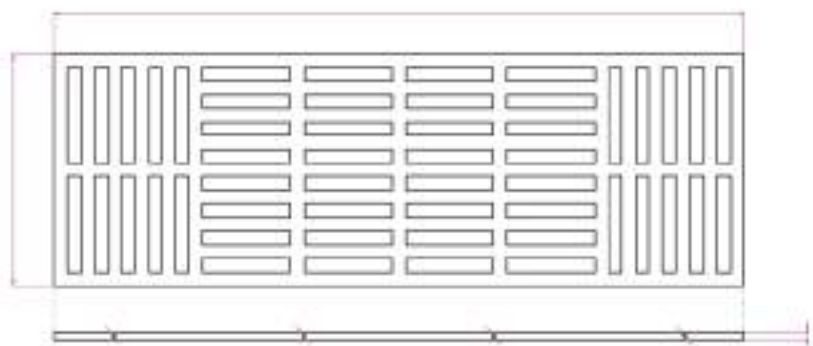
DAM 21 215x825



DAM 21 315x625



DAM 21 315x825





MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM21R</b> <b>425x115</b> Ak: 0,0147m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	53	106	159	212	265	318	371	424	477	530
	Pressure Drop	Pa	3	13	30	53	83	119	162	211	267	330
	Horizontal Throw Vt 0,25m/s	mt	0,2	0,3	0,5	0,6	0,8	0,9	1,1	1,2	1,4	1,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>525x115</b> Ak: 0,0189m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	68	136	204	272	340	408	476	544	612	680
	Pressure Drop	Pa	3	13	29	51	79	114	155	203	257	317
	Horizontal Throw Vt 0,25m/s	mt	0,2	0,4	0,6	0,8	0,9	1,1	1,3	1,5	1,7	1,9
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>625x115</b> Ak: 0,0229m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	83	165	248	330	413	495	578	660	743	825
	Pressure Drop	Pa	3	12	28	49	77	111	150	196	249	307
	Horizontal Throw Vt 0,25m/s	mt	0,2	0,4	0,7	0,9	1,1	1,3	1,5	1,8	2,0	2,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>825x115</b> Ak: 0,0304m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	110	219	329	438	548	657	767	876	986	1095
	Pressure Drop	Pa	3	12	26	47	73	105	144	188	237	293
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,6	0,9	1,2	1,4	1,7	2,0	2,3	2,6	2,9
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>1025x115</b> Ak: 0,0379m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	137	273	410	546	683	819	956	1092	1229	1365
	Pressure Drop	Pa	3	11	25	45	71	102	139	181	229	283
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,2	2,6	2,9	3,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM21R</b> <b>425x215</b> Ak: 0,0248m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	89	178	268	357	446	535	624	713	803	892
	Pressure Drop	Pa	3	12	27	49	76	109	149	195	246	304
	Horizontal Throw Vt 0,25m/s	mt	0,2	0,5	0,7	0,9	1,1	1,4	1,6	1,8	2,1	2,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>525x215</b> Ak: 0,0318m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	114	229	343	458	572	687	801	915	1030	1144
	Pressure Drop	Pa	3	12	26	47	73	105	143	186	236	291
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,6	0,8	1,1	1,4	1,7	1,9	2,2	2,5	2,8
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>625x215</b> Ak: 0,0356m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	139	278	416	555	694	833	972	1111	1249	1388
	Pressure Drop	Pa	3	11	25	45	71	102	138	180	228	282
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3,0
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>825x215</b> Ak: 0,0512m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	184	368	553	737	921	1105	1290	1474	1658	1842
	Pressure Drop	Pa	3	11	24	43	68	97	132	173	219	270
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,8	1,2	1,6	2,0	2,3	2,7	3,1	3,5	3,9
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>1025x215</b> Ak: 0,0638m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	230	459	689	919	1148	1378	1608	1837	2067	2297
	Pressure Drop	Pa	3	11	25	45	71	102	139	181	229	283
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,8	1,3	1,7	2,1	2,5	2,9	3,3	3,8	4,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DAM21R</b> <b>425x315</b> Ak: 0,0147m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	135	269	404	538	673	807	942	1077	1211	1346
	Pressure Drop	Pa	3	11	25	45	71	102	139	181	229	283
	Horizontal Throw Vt 0,25m/s	mt	0,3	0,6	1,0	1,3	1,6	1,9	2,2	2,6	2,9	3,2
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>525x315</b> Ak: 0,0189m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	173	345	518	691	863	1036	1209	1381	1554	1727
	Pressure Drop	Pa	3	11	24	43	68	97	132	173	219	270
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,7	1,1	1,4	1,8	2,2	2,5	2,9	3,3	3,6
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>625x315</b> Ak: 0,0229m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	209	419	628	838	1047	1257	1466	1676	1885	2095
	Pressure Drop	Pa	3	11	24	42	66	95	129	169	214	264
	Horizontal Throw Vt 0,25m/s	mt	0,4	0,9	1,3	1,7	2,2	2,6	3,0	3,5	3,9	4,3
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>825x315</b> Ak: 0,0304m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	278	556	834	1112	1390	1668	1946	2224	2502	2780
	Pressure Drop	Pa	3	11	24	43	68	97	132	173	219	270
	Horizontal Throw Vt 0,25m/s	mt	0,5	1,1	1,6	2,2	2,7	3,3	3,8	4,3	4,9	5,4
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1
<b>DAM21R</b> <b>1025x315</b> Ak: 0,0379m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	347	693	1040	1386	1733	2080	2426	2773	3119	3466
	Pressure Drop	Pa	2	10	22	39	61	87	119	156	197	243
	Horizontal Throw Vt 0,25m/s	mt	0,7	1,3	2,0	2,6	3,3	3,9	4,6	5,2	5,9	6,5
	Noise Level	dB(A)	15	20	25	30	35	40	45	50	55	60
	Min. Installation Height	m	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4
	Max. Installation Height	m	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0	4,1

Note: the data indicated refer to operation in isothermal conditions

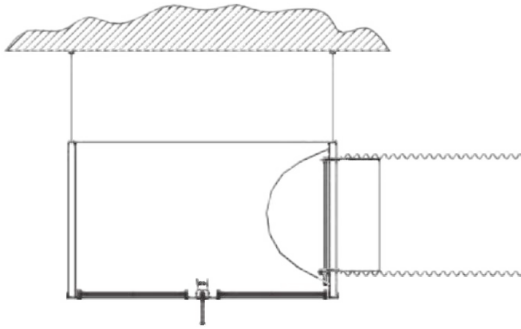


FIG. 1

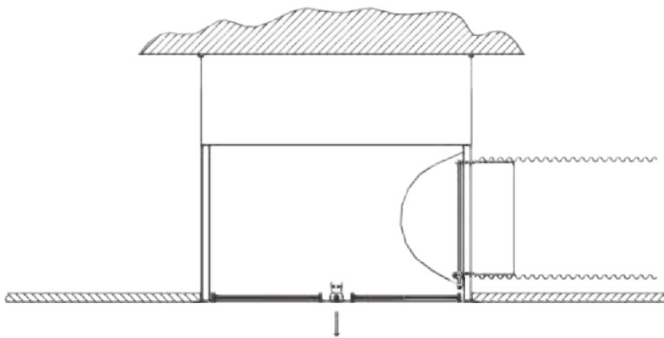
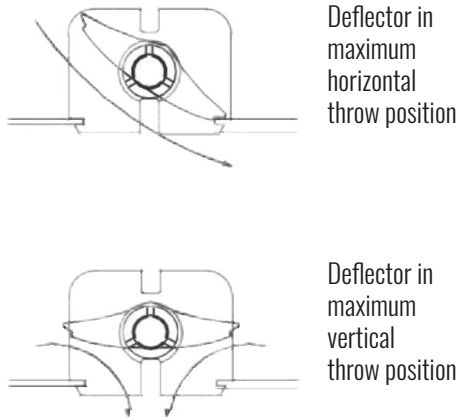


FIG. 2



Deflector in maximum horizontal throw position

Deflector in maximum vertical throw position

FIG. 3

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

### 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 hexagonal-head 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.

### Fig. 3 Movable deflector adjustment

- The movable deflectors can be adjusted from an angle of 0° (maximum vertical throw position used in heating) to a maximum angle (maximum horizontal throw position used in cooling).

The deflectors are fitted with a snap positioning device in order to guarantee accuracy and always correct positioning even with high flow rates and velocities.

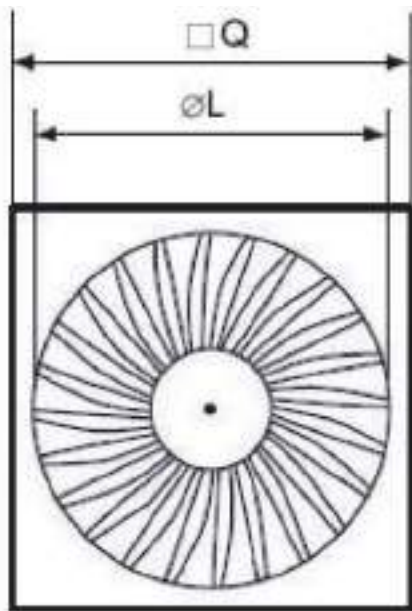


# DGF

Helical-effect linear throw diffuser on square panel with fixed deflectors positioned in radial direction. The helical throw impressed on the air injected by the particular geometry of the deflectors allows obtaining a high induction ratio and consequently rapid reduction of the air velocity and temperature difference.

## 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 galvanised steel panel	epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in non-standard RAL colours.	the diffusers are fastened to the plenum by means of side screws or a central screw. Using a central screw to fasten the diffuser to the plenum bridge makes it particularly easy to install. To ensure throw stability, it is suggested to install it flush with the ceiling.



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## TECHNICAL DATA

Model	A [mm]	B [mm]
DGF 300	295	295
DGF 400	395	395
DGF 500	495	495
DGF 600	595	595

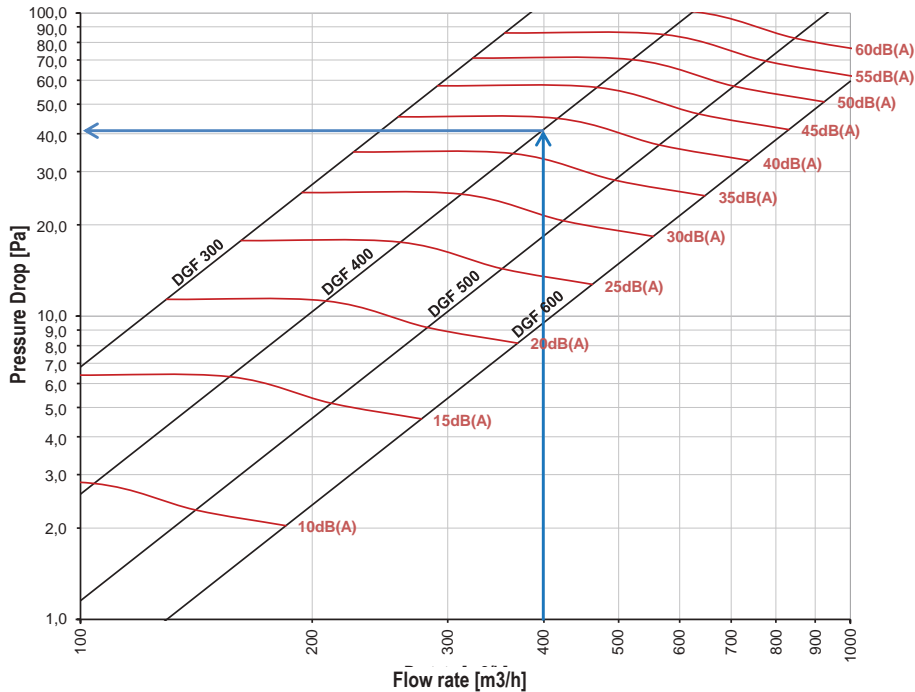
## APPLICATIONS

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

\*on request

### Selection charts

Flow Rate / Pressure Drop / Noise Level



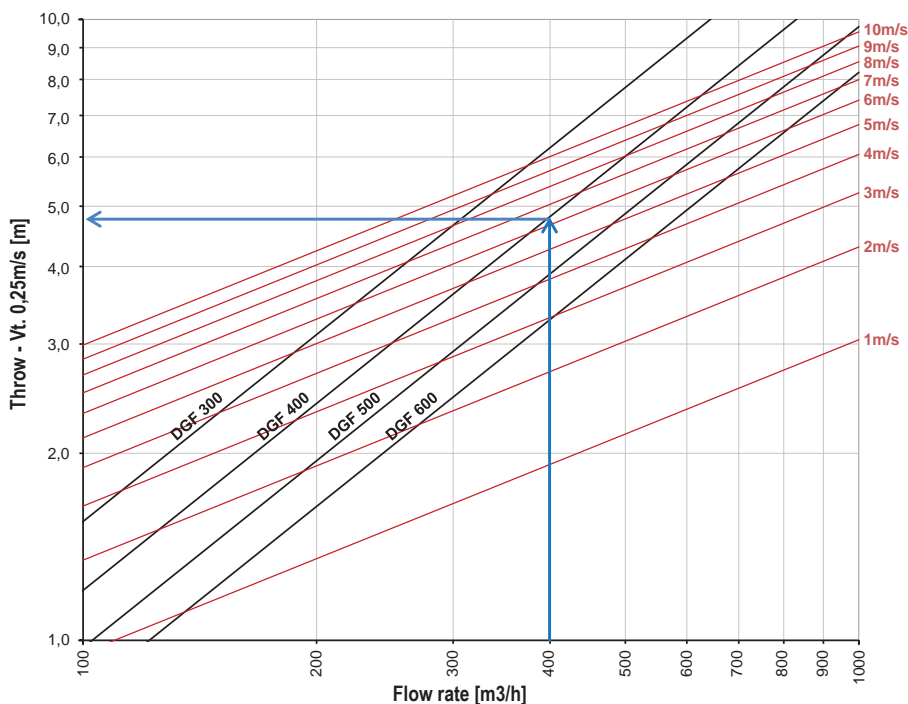
### Diagram 1

The diagram shows the diffuser pressure drop based on the flow rate with relative indication of the noise level without environmental attenuation

#### CALCULATION (input data)

Total Flow Rate	4000 m <sup>3</sup> /h
Max Noise Level	40dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	4,8m

Flow Rate / Throw (Vt.: 0,25m/s) / Outlet Air Speed



#### SELECTION

Model	DFG 400
Flow Rate	400 m <sup>3</sup> /h
Pressure Drop	+/- 41Pa
Noise Level	+/-37dB(A)
Horizontal Isothermal Throw	+/- 4,8m
Outlet Air Speed	Flow Rate / (Ak * 3600) = 6,3m/s

### Grafico 2

The diagram shows the diffuser air outlet speed and horizontal throw with terminal speed equal to 0.25m/s based on the flow rate.

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

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DGF 300</b> Ak: 0,0103m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	37	74	111	149	186	223	260	297	334	371
	Pressure Drop	Pa	1	4	8	15	23	34	46	60	76	94
	Horizontal Throw Vt 0,25m/s	mt	0,6	1,2	1,7	2,3	2,9	3,5	4,0	4,6	5,2	5,8
	Noise Level	dB(A)	6	11	17	23	29	34	40	46	52	57
<b>DGF 400</b> Ak: 0,0176m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	63	127	190	254	317	381	444	507	571	634
	Pressure Drop	Pa	1	4	8	15	23	34	46	60	76	94
	Horizontal Throw Vt 0,25m/s	mt	0,8	1,5	2,3	3,1	3,8	4,6	5,3	6,1	6,9	7,6
	Noise Level	dB(A)	6	12	18	24	30	37	43	49	55	61
<b>DGF 500</b> Ak: 0,0267m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	96	192	288	384	480	576	672	768	864	960
	Pressure Drop	Pa	1	4	8	15	23	34	46	60	76	94
	Horizontal Throw Vt 0,25m/s	mt	0,9	1,9	2,8	3,7	4,7	5,6	6,5	7,5	8,4	9,3
	Noise Level	dB(A)	7	14	20	27	34	41	48	54	61	68
<b>DGF 600</b> Ak: 0,0374m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	135	269	404	539	674	808	943	1078	1212	1347
	Pressure Drop	Pa	1	4	8	15	23	34	46	60	76	94
	Horizontal Throw Vt 0,25m/s	mt	1,1	2,2	3,3	4,4	5,5	6,6	7,7	8,9	10,0	11,1
	Noise Level	dB(A)	7	15	22	29	36	44	51	58	66	73

Note: the data indicated refer to operation in isothermal conditions

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

## Adjustment

The airflow distribution is manually adjusted by acting on the deflectors that are fitted with a snap positioning device so that they stay in position during operation.

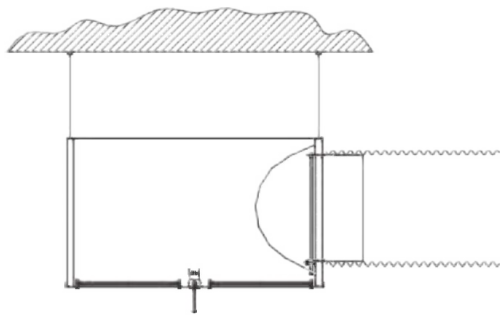


FIG. 1

## 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.

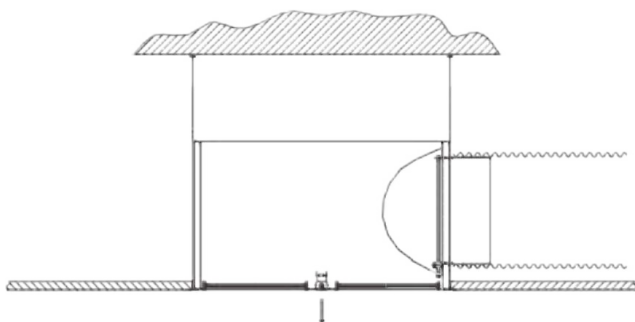


FIG. 2

## 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.



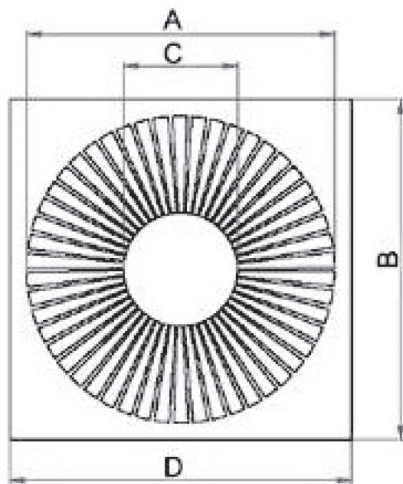


# DWS

Helical throw diffuser on square panel characterised by a series of 36 fixed fins positioned in radial direction. The helical throw given on the air injected by the particular geometry of the deflectors allows obtaining a high induction ratio and consequently rapid reduction of the air velocity and temperature difference.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	COLOR	FASTENING
2,7 to 3,6 m	the diffusers are fastened to the plenum by means of side screws or a central screw. Using a central screw to fasten the diffuser to the plenum bridge makes it particularly easy to install. To ensure throw stability, it is suggested to install it flush with the ceiling.	painted galvanised steel panel	epoxy powder coating resistant to impact and abrasion	RAL 9010 white. On request, coating in non-standard RAL colours.	the diffusers are fastened to the plenum by means of side screws or a central screw. Using a central screw to fasten the diffuser to the plenum bridge makes it particularly easy to install. To ensure throw stability, it is suggested to install it flush with the ceiling.



## GREEN BUILDING

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Contributes to credits:  
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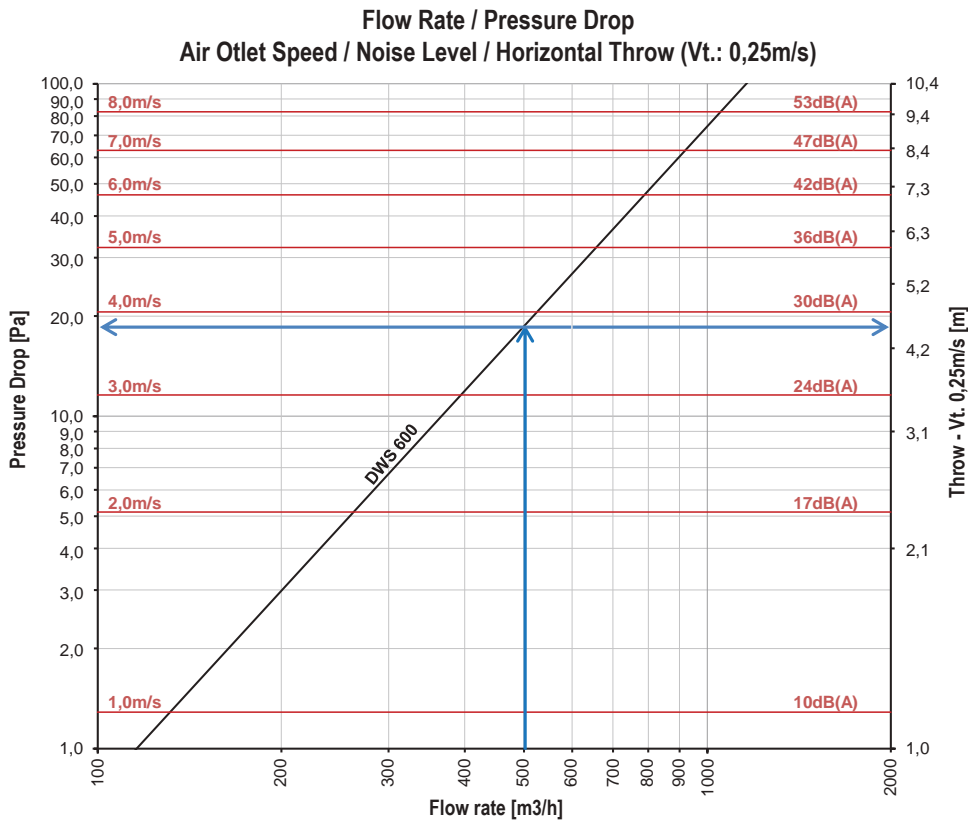
## TECHNICAL DATA

Model	B X D [mm]	Ø A [mm]	Ø C [mm]
DWS 600	595	540	200

## APPLICATIONS

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

### Selection charts



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

### Diagram 1

\*on request

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.

CALCULATION (input data)	
Total Flow Rate	5000 m <sup>3</sup> /h
Max Noise Level	30dB(A)
Number of diffusers expected	10pz.
Horizontal Isothermal Throw	4,4m

SELECTION	
Model	DWS 600
Flow Rate	500 m <sup>3</sup> /h
Pressure Drop	+/- 19Pa
Noise Level	29dB(A)
Outlet Air Speed	Flow Rate / (Ak * 3600) = 3,80m/s
Horizontal Isothermal Throw	4,4m

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DWS 600</b> Ak: 0,0365m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	131	263	394	526	657	788	920	1051	1183	1314
	Pressure Drop	Pa	1	5	12	21	32	46	63	82	104	129
	Horizontal Throw Vt 0,25m/s	mt	1,2	2,4	3,6	4,7	5,9	7,1	8,3	9,5	10,7	11,9
	Noise Level	dB(A)	10	17	24	30	36	42	47	53	58	63

Note: the data indicated refer to operation in isothermal conditions

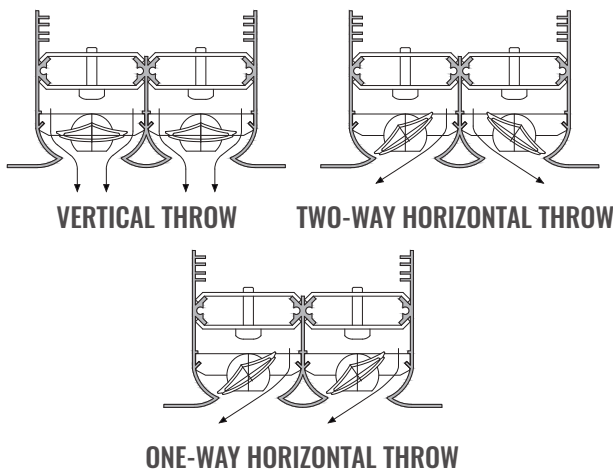
# DFL-P



Slotted linear diffuser with adjustable PVC deflectors with a high induction ratio (mixing capacity) between the injected and the ambient air. Constructed of coupled aluminium profiles to obtain multiple slots inside which adjustable plastic deflectors are housed. The 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	FASTENING TO PLENUM
2,5 to 4 m	The DFL 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. The diffuser can be equipped with damper and equalizer.	Extruded anodised aluminium profiles, ABS supports and black PVC deflectors	Anodized aluminium, black deflectors. On request, frame coating in RAL 9010 or nonstandard RAL colours.	by means of side screws or a central screw



## GREEN BUILDING

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**LEED**

Contributes to credits:  
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## TECHNICAL DATA

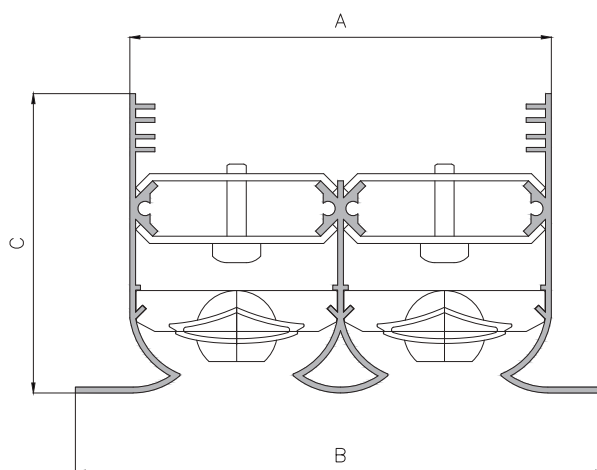
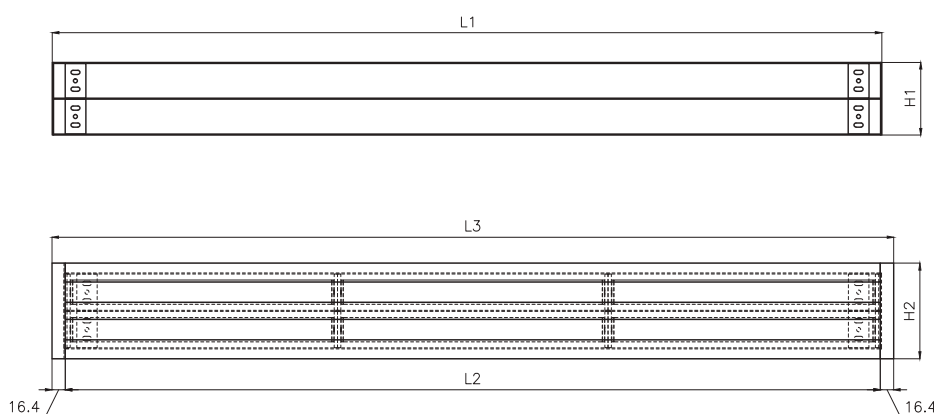
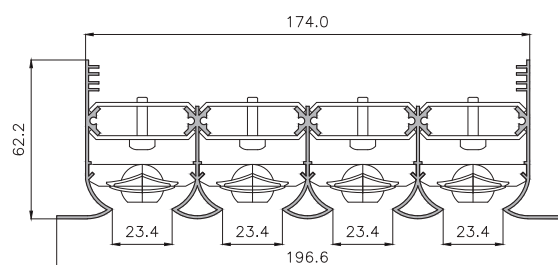
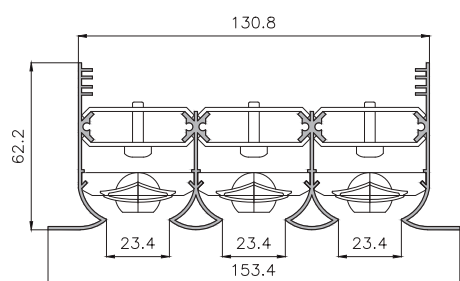
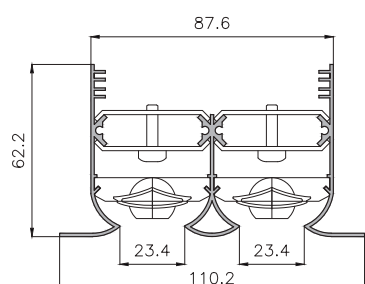
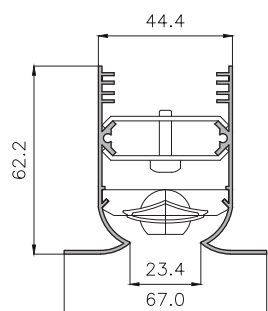
Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
800	1	800	797	829,8	44,4	67,0	62,2
	2	800	797	829,8	87,6	110,2	62,2
	3	800	797	829,8	130,8	153,4	62,2
	4	800	797	829,8	174,0	196,6	62,2
1000	1	1000	997	1029,8	44,4	67,0	62,2
	2	1000	997	1029,8	87,6	110,2	62,2
	3	1000	997	1029,8	130,8	153,4	62,2
	4	1000	997	1029,8	174,0	196,6	62,2

## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
1500	1	1500	1497	1529,8	44,4	67,0	62,2
	2	1500	1497	1529,8	87,6	110,2	62,2
	3	1500	1497	1529,8	130,8	153,4	62,2
	4	1500	1497	1529,8	174,0	196,6	62,2
2000	1	2000	1997	2029,8	44,4	67,0	62,2
	2	2000	1997	2029,8	87,6	110,2	62,2
	3	2000	1997	2029,8	130,8	153,4	62,2
	4	2000	1997	2029,8	174,0	196,6	62,2

## APPLICATIONS

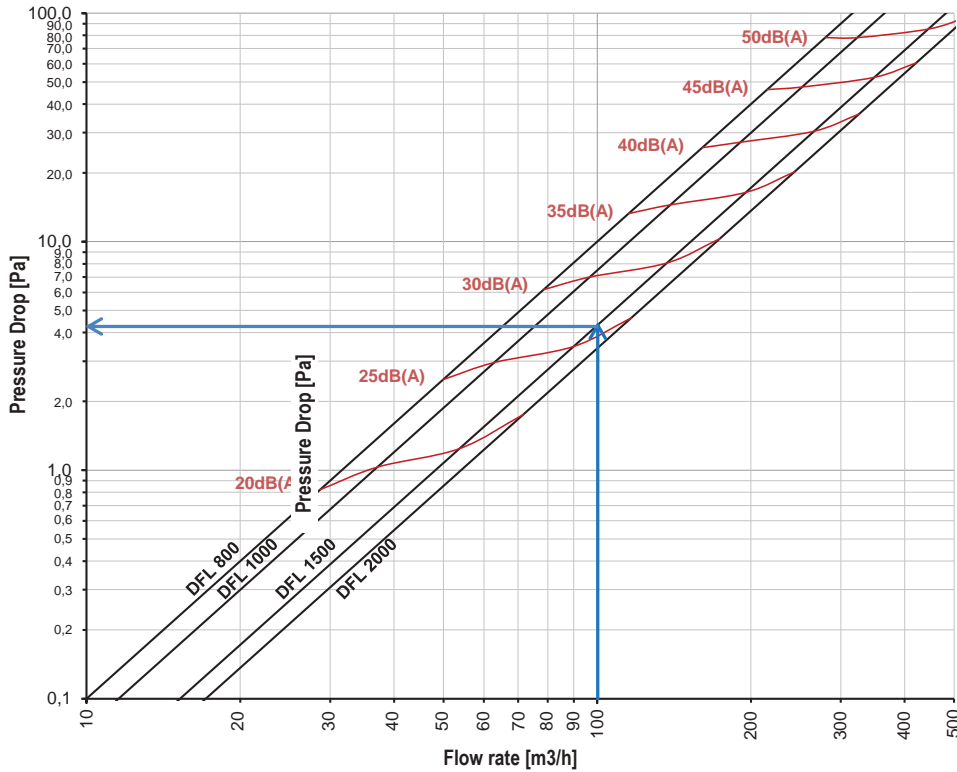
								
Residential	Easy Pack	Calculation Method	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design



\*on request

## Selection Charts

Flow Rate / Pressure Drop / Noise Level  
Models DFL - 1 Slot



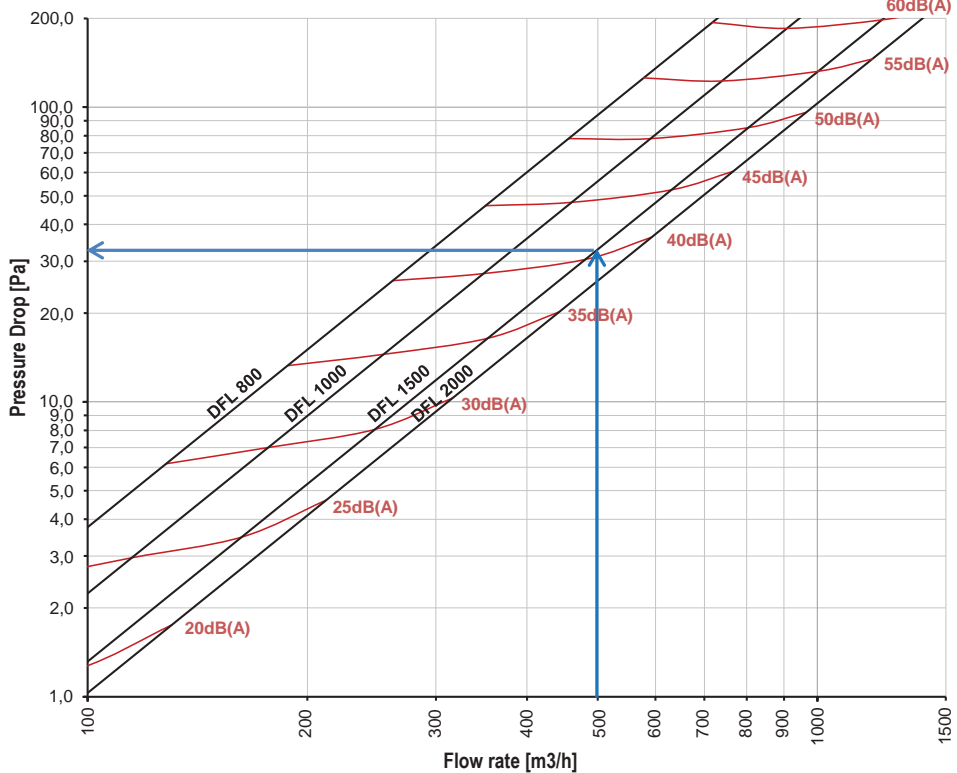
### Diagram 1 - 1 slot

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

#### CALCULATION (input data)

Total Flow Rate	100 m <sup>3</sup> /h
Max Noise Level	<30dB(A).
Horizontal Throw	4,0m.
Vertical Throw	2,8m

Flow Rate / Pressure Drop / Noise Level  
Models DFL - 2 Slot



#### SELECTION

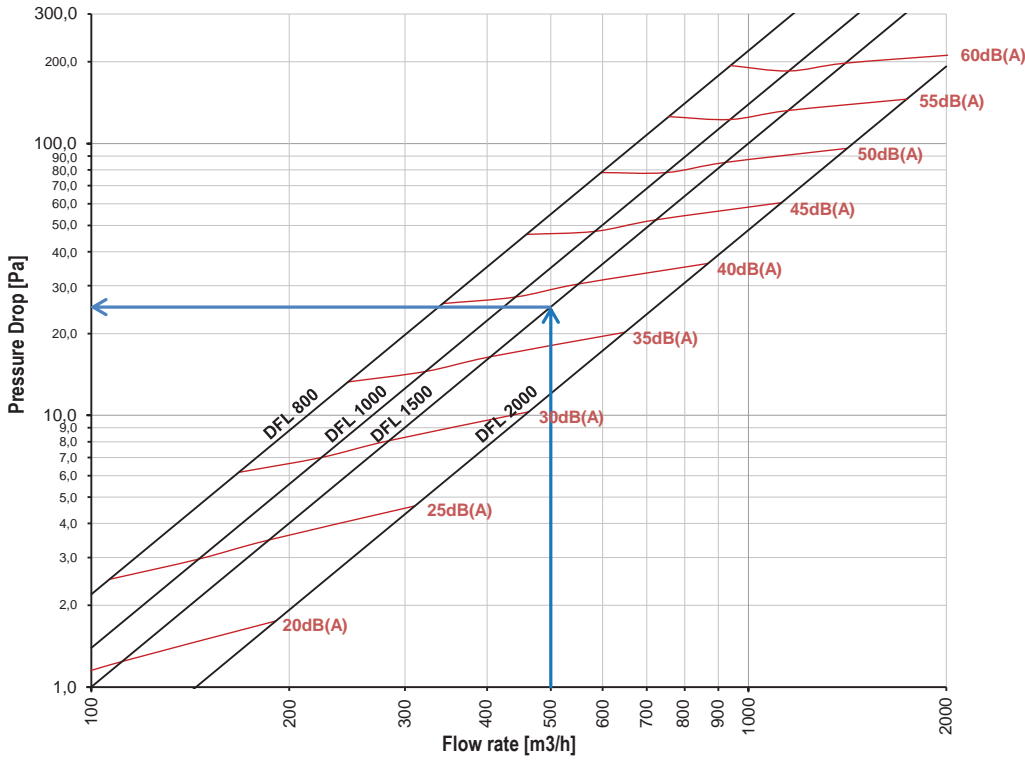
Model	DFL 1500 1 SLOT
Flow Rate	107 m <sup>3</sup> /h
Pressure Drop	5Pa
Noise Level	27dB(A)
Inlet Air Speed	2m/s
Horizontal Isothermal Throw	4,0m
Vertical Isothermal Throw	2,8m

### Diagram 2 - 2 slots

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

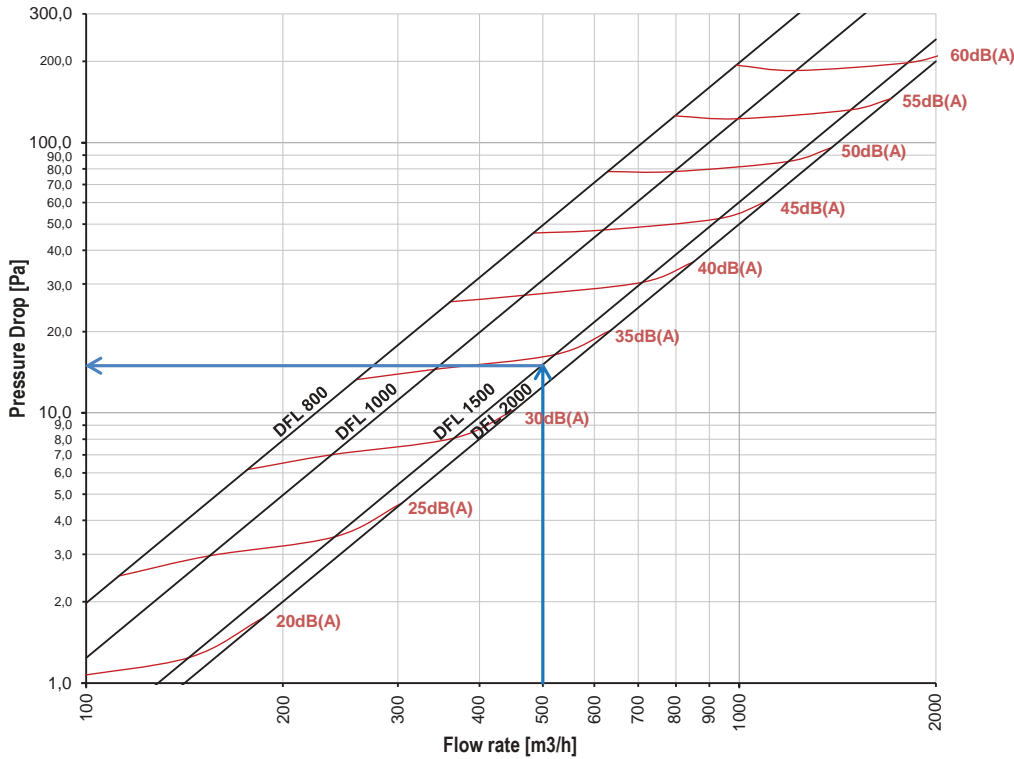
Flow Rate / Pressure Drop / Noise Level  
Models DFL - 3 Slot

Diagram 3 - 3 slots



Flow Rate / Pressure Drop / Noise Level  
Models DFL - 2 Slot

Diagram 4 - 4 slots



## QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 800 1 SLOT</b> Ak: 0,0080m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	29	57	86	115	143	172	201	229	258	287
	Pressure Drop	Pa	1	3	7	13	21	30	40	53	67	82
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,6
	Vertical Throw Vt 0,25	mt	0,7	1,5	2,2	3,0	3,7	4,4	5,2	5,9	6,6	7,4
	Noise Level	dB(A)	20	26	31	35	38	41	44	46	48	50
<b>DFL 800 2 SLOT</b> Ak: 0,0159m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	115	172	229	287	344	401	458	516	573
	Pressure Drop	Pa	1	5	11	20	31	44	61	79	100	124
	Horizontal Throw Vt 0,25	mt	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12,0	13,5	15,0
	Vertical Throw Vt 0,25	mt	1,0	2,1	3,1	4,2	5,2	6,3	7,3	8,4	9,4	10,5
	Noise Level	dB(A)	22	29	34	38	41	45	47	50	53	55
<b>DFL 800 3 SLOT</b> Ak: 0,0239m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	86	172	258	344	430	516	602	688	774	860
	Pressure Drop	Pa	2	6	15	26	41	58	80	104	131	162
	Horizontal Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,9	10,6	12,4	14,2	15,9	17,7
	Vertical Throw Vt 0,25	mt	1,2	2,5	3,7	5,0	6,2	7,4	8,7	9,9	11,2	12,4
	Noise Level	dB(A)	23	30	36	40	44	47	50	53	56	58
<b>DFL 800 4 SLOT</b> Ak: 0,0318m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	115	229	344	458	573	688	802	917	1032	1146
	Pressure Drop	Pa	3	10	23	42	65	94	127	166	211	260
	Horizontal Throw Vt 0,25	mt	2,0	4,0	6,1	8,1	10,1	12,1	14,1	16,2	18,2	20,2
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,7	7,1	8,5	9,9	11,3	12,7	14,1
	Noise Level	dB(A)	25	33	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 1000 1 SLOT</b> Ak: 0,0099m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	36	72	107	143	179	215	251	287	322	358
	Pressure Drop	Pa	1	4	9	15	24	35	47	61	78	96
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Vertical Throw Vt 0,25	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	20	26	31	35	39	42	45	48	50	52
<b>DFL 1000 2 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	1	5	10	18	29	41	56	74	93	115
	Horizontal Throw Vt 0,25	mt	1,9	3,8	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8
	Vertical Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Noise Level	dB(A)	20	27	33	37	40	44	47	49	52	54
<b>DFL 1000 3 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	26	40	58	79	103	130	161
	Horizontal Throw Vt 0,25	mt	2,2	4,4	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2
	Vertical Throw Vt 0,25	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,6
	Noise Level	dB(A)	22	29	35	40	43	47	50	53	56	58
<b>DFL 1000 4 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	3	10	23	41	64	92	125	163	206	255
	Horizontal Throw Vt 0,25	mt	2,5	5,0	7,6	10,1	12,6	15,1	17,6	20,2	22,7	25,2
	Vertical Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,6
	Noise Level	dB(A)	24	32	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions



## QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 1500 1 SLOT</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	269	322	376	430	484	537
	Pressure Drop	Pa	1	5	11	20	31	45	61	79	101	124
	Horizontal Throw Vt 0,25	mt	2,0	4,0	5,9	7,9	9,9	11,9	13,9	15,9	17,8	19,8
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9
	Noise Level	dB(A)	20	27	32	36	40	43	46	49	52	54
<b>DFL 1500 2 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	24	38	55	74	97	123	152
	Horizontal Throw Vt 0,25	mt	2,9	5,7	8,6	11,5	14,4	17,2	20,1	23,0	25,9	28,7
	Vertical Throw Vt 0,25	mt	2,0	4,0	6,0	8,0	10,1	12,1	14,1	16,1	18,1	20,1
	Noise Level	dB(A)	21	28	34	38	42	45	49	51	54	57
<b>DFL 1500 3 SLOT</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	322	484	645	806	967	1128	1290	1451	1612
	Pressure Drop	Pa	3	10	23	42	65	94	128	167	211	260
	Horizontal Throw Vt 0,25	mt	3,4	6,7	10,1	13,5	16,8	20,2	23,6	26,9	30,3	33,7
	Vertical Throw Vt 0,25	mt	2,4	4,7	7,1	9,4	11,8	14,1	16,5	18,8	21,2	23,6
	Noise Level	dB(A)	23	32	38	43	47	51	55	58	61	64
<b>DFL 1500 4 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	3	11	25	45	70	100	136	178	226	278
	Horizontal Throw Vt 0,25	mt	3,8	7,6	11,4	15,2	19,0	22,8	26,6	30,4	34,1	37,9
	Vertical Throw Vt 0,25	mt	2,7	5,3	8,0	10,6	13,3	15,9	18,6	21,2	23,9	26,6
	Noise Level	dB(A)	24	32	38	43	48	52	55	59	62	65

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 2000 1 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	2	7	16	28	44	63	86	112	142	175
	Horizontal Throw Vt 0,25	mt	2,6	5,3	7,9	10,6	13,2	15,9	18,5	21,2	23,8	26,5
	Vertical Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,5
	Noise Level	dB(A)	20	27	33	38	42	45	49	52	55	57
<b>DFL 2000 2 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	2	8	19	34	53	76	104	135	171	211
	Horizontal Throw Vt 0,25	mt	3,9	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
	Vertical Throw Vt 0,25	mt	2,7	5,4	8,1	10,9	13,6	16,3	19,0	21,7	24,4	27,1
	Noise Level	dB(A)	21	29	35	39	44	47	51	54	57	60
<b>DFL 2000 3 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	2	9	20	36	56	80	109	142	180	222
	Horizontal Throw Vt 0,25	mt	4,5	9,0	13,5	18,1	22,6	27,1	31,6	36,1	40,6	45,1
	Vertical Throw Vt 0,25	mt	3,2	6,3	9,5	12,6	15,8	19,0	22,1	25,3	28,4	31,6
	Noise Level	dB(A)	21	29	35	40	44	48	51	55	58	61
<b>DFL 2000 4 SLOT</b> Ak: 0,0796m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	287	573	860	1146	1433	1719	2006	2292	2579	2866
	Pressure Drop	Pa	4	16	37	66	103	148	201	263	333	411
	Horizontal Throw Vt 0,25	mt	5,1	10,1	15,2	20,2	25,3	30,4	35,4	40,5	45,6	50,6
	Vertical Throw Vt 0,25	mt	3,5	7,1	10,6	14,2	17,7	21,3	24,8	28,3	31,9	35,4
	Noise Level	dB(A)	24	33	40	46	51	55	59	63	66	70

Note: the data indicated refer to operation in isothermal conditions

# DFL-A

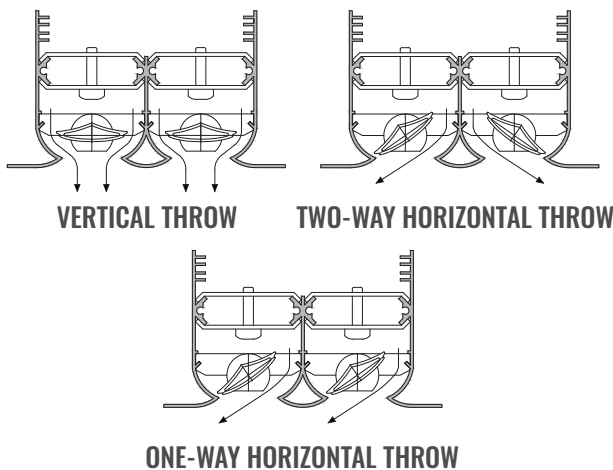


Slotted linear diffuser with adjustable aluminium deflectors with a high induction ratio (mixing capacity) between the injected and the ambient air. Constructed of coupled aluminium profiles to obtain multiple slots inside which adjustable aluminium deflectors are housed.

The 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	FASTENING TO PLENUM
2,5 to 4 m	The DFL 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. The diffuser can be equipped with damper and equalizer.	extruded anodised aluminium profiles and anodised aluminium deflectors	anodized aluminium. On request, frame coating in RAL 9010 or non-standard RAL colours.	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, EQ



**WELL**

Contributes to credits:  
AIR, THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM**<sup>®</sup>

**BREEAM**

Contributes to credits:  
MAN, HEA, WST

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










## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
800	1	800	797	829,8	44,4	67,0	62,2
	2	800	797	829,8	87,6	110,2	62,2
	3	800	797	829,8	130,8	153,4	62,2
	4	800	797	829,8	174,0	196,6	62,2
1000	1	1000	997	1029,8	44,4	67,0	62,2
	2	1000	997	1029,8	87,6	110,2	62,2
	3	1000	997	1029,8	130,8	153,4	62,2
	4	1000	997	1029,8	174,0	196,6	62,2

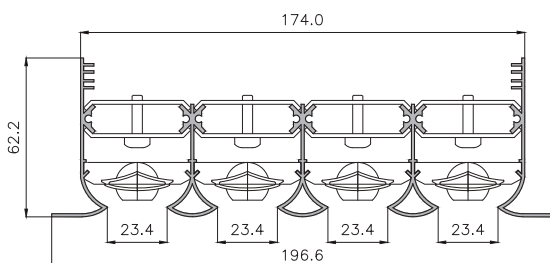
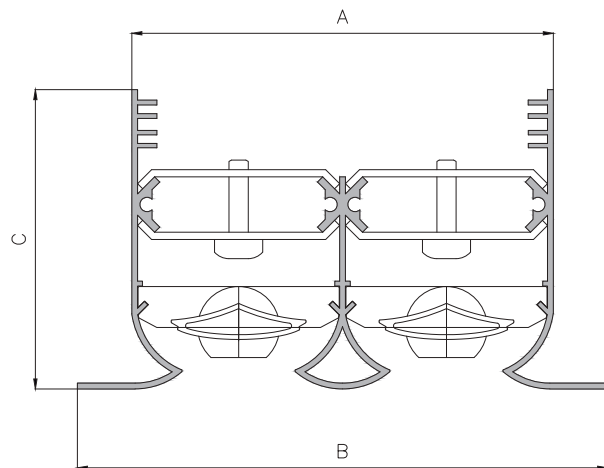
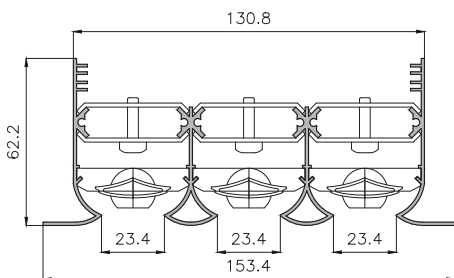
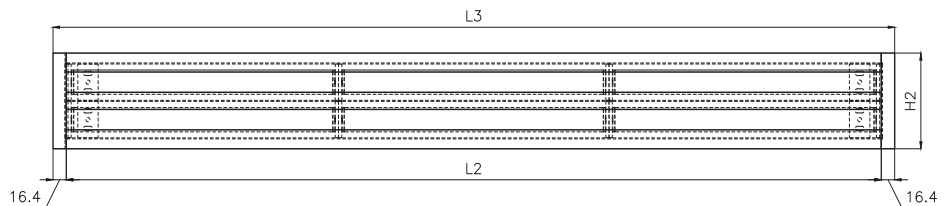
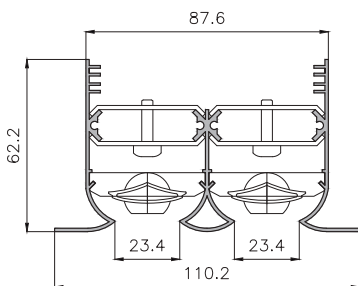
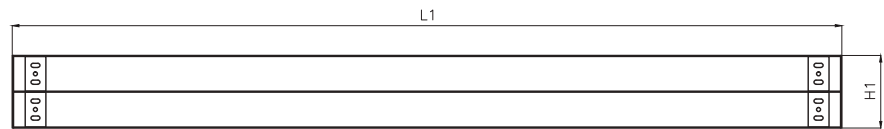
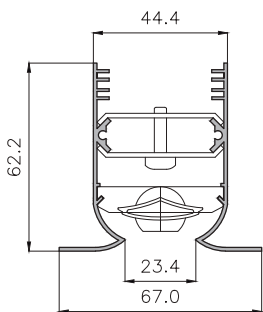
## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
1500	1	1500	1497	1529,8	44,4	67,0	62,2
	2	1500	1497	1529,8	87,6	110,2	62,2
	3	1500	1497	1529,8	130,8	153,4	62,2
	4	1500	1497	1529,8	174,0	196,6	62,2
2000	1	2000	1997	2029,8	44,4	67,0	62,2
	2	2000	1997	2029,8	87,6	110,2	62,2
	3	2000	1997	2029,8	130,8	153,4	62,2
	4	2000	1997	2029,8	174,0	196,6	62,2

## APPLICATIONS

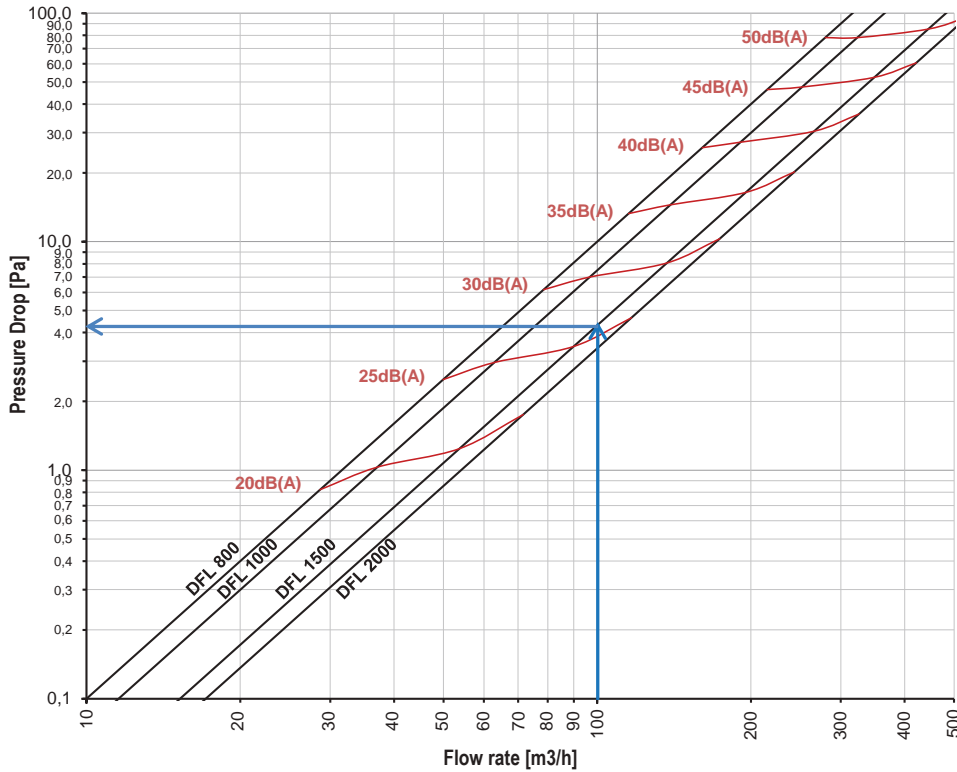
								
Residential	Easy Pack	Calculation Method	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design

\*on request



## Selection Charts

Flow Rate / Pressure Drop / Noise Level  
Models DFL - 1 Slot



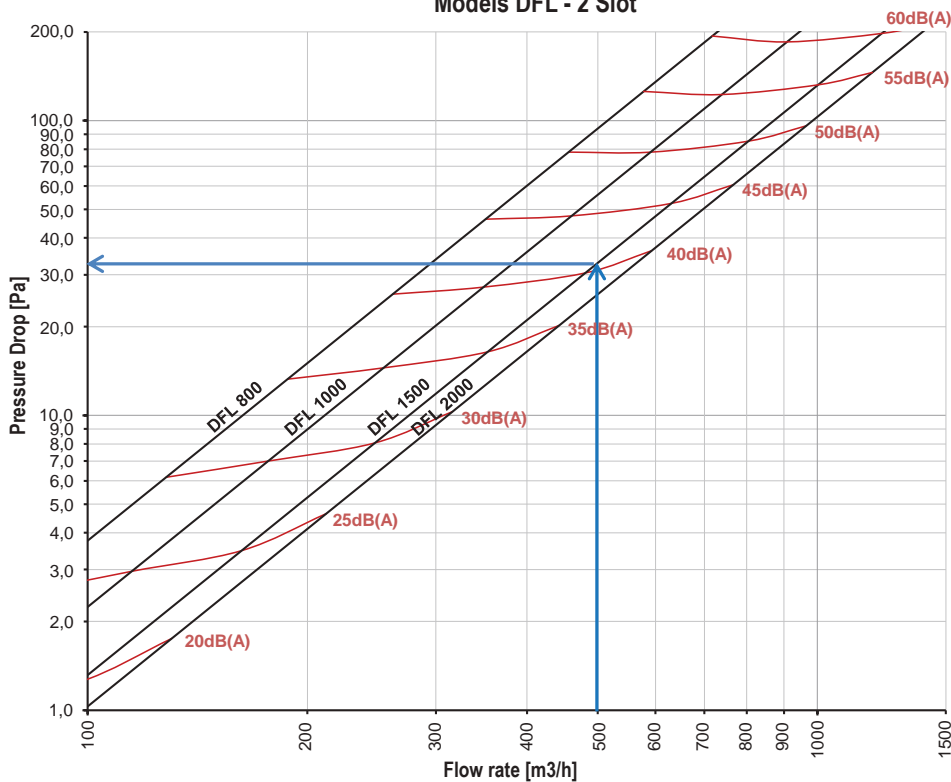
**Diagram 1 - 1 slot**

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

### CALCULATION (input data)

Total Flow Rate	100 m <sup>3</sup> /h
Max Noise Level	<30dB(A).
Horizontal Throw	4,0m.
Vertical Throw	2,8m

Flow Rate / Pressure Drop / Noise Level  
Models DFL - 2 Slot



### SELECTION

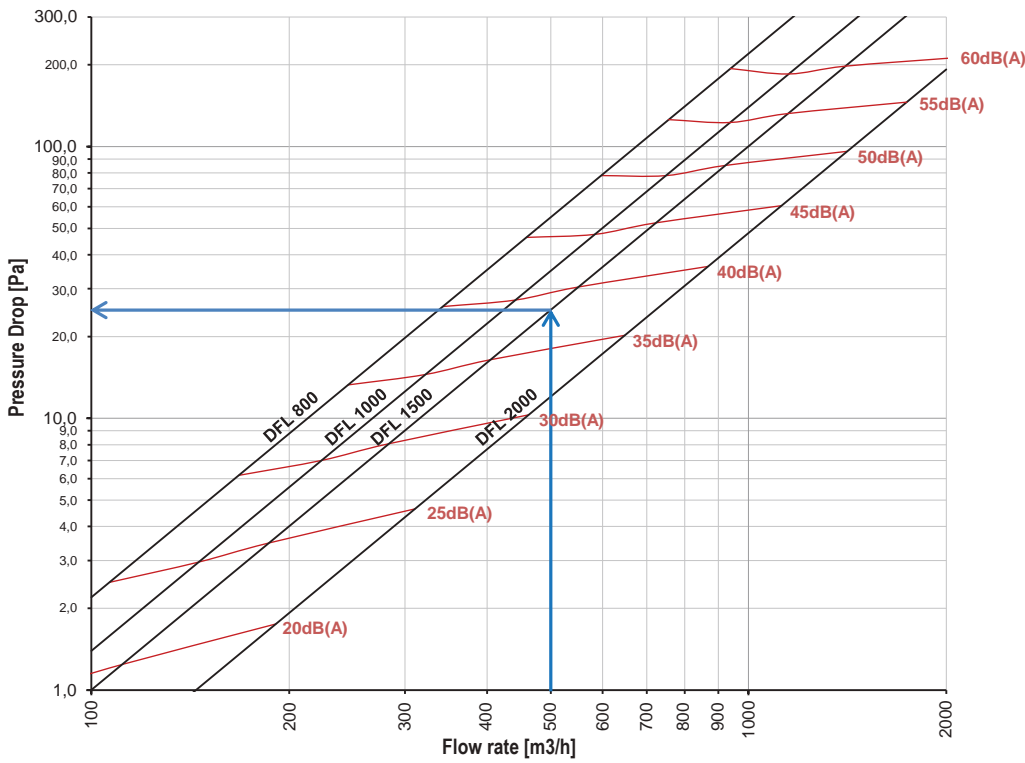
Model	DFL 1500 1 SLOT
Flow Rate	107 m <sup>3</sup> /h
Pressure Drop	5Pa
Noise Level	27dB(A)
Inlet Air Speed	2m/s
Horizontal Isothermal Throw	4,0m
Vertical Isothermal Throw	2,8m

**Diagram 2 - 2 slots**

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

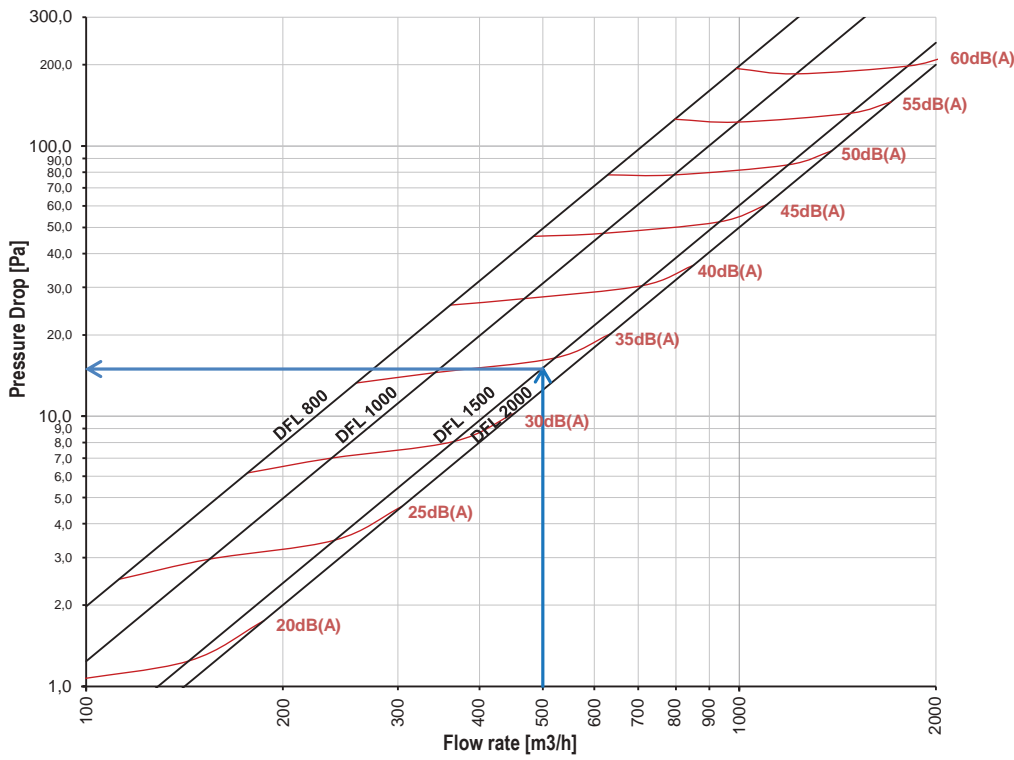
Flow Rate / Pressure Drop / Noise Level  
Models DFL - 3 Slot

Diagram 3 - 3 slots



Flow Rate / Pressure Drop / Noise Level  
Models DFL - 2 Slot

Diagram 4 - 4 slots



## QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 800 1 SLOT</b> Ak: 0,0080m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	29	57	86	115	143	172	201	229	258	287
	Pressure Drop	Pa	1	3	7	13	21	30	40	53	67	82
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,6
	Vertical Throw Vt 0,25	mt	0,7	1,5	2,2	3,0	3,7	4,4	5,2	5,9	6,6	7,4
	Noise Level	dB(A)	20	26	31	35	38	41	44	46	48	50
<b>DFL 800 2 SLOT</b> Ak: 0,0159m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	115	172	229	287	344	401	458	516	573
	Pressure Drop	Pa	1	5	11	20	31	44	61	79	100	124
	Horizontal Throw Vt 0,25	mt	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12,0	13,5	15,0
	Vertical Throw Vt 0,25	mt	1,0	2,1	3,1	4,2	5,2	6,3	7,3	8,4	9,4	10,5
	Noise Level	dB(A)	22	29	34	38	41	45	47	50	53	55
<b>DFL 800 3 SLOT</b> Ak: 0,0239m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	86	172	258	344	430	516	602	688	774	860
	Pressure Drop	Pa	2	6	15	26	41	58	80	104	131	162
	Horizontal Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,9	10,6	12,4	14,2	15,9	17,7
	Vertical Throw Vt 0,25	mt	1,2	2,5	3,7	5,0	6,2	7,4	8,7	9,9	11,2	12,4
	Noise Level	dB(A)	23	30	36	40	44	47	50	53	56	58
<b>DFL 800 4 SLOT</b> Ak: 0,0318m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	115	229	344	458	573	688	802	917	1032	1146
	Pressure Drop	Pa	3	10	23	42	65	94	127	166	211	260
	Horizontal Throw Vt 0,25	mt	2,0	4,0	6,1	8,1	10,1	12,1	14,1	16,2	18,2	20,2
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,7	7,1	8,5	9,9	11,3	12,7	14,1
	Noise Level	dB(A)	25	33	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

MODELLO	DESCRIZIONE	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 1000 1 SLOT</b> Ak: 0,0099m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	36	72	107	143	179	215	251	287	322	358
	Pressure Drop	Pa	1	4	9	15	24	35	47	61	78	96
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Vertical Throw Vt 0,25	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	20	26	31	35	39	42	45	48	50	52
<b>DFL 1000 2 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	1	5	10	18	29	41	56	74	93	115
	Horizontal Throw Vt 0,25	mt	1,9	3,8	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8
	Vertical Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Noise Level	dB(A)	20	27	33	37	40	44	47	49	52	54
<b>DFL 1000 3 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	26	40	58	79	103	130	161
	Horizontal Throw Vt 0,25	mt	2,2	4,4	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2
	Vertical Throw Vt 0,25	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,6
	Noise Level	dB(A)	22	29	35	40	43	47	50	53	56	58
<b>DFL 1000 4 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	3	10	23	41	64	92	125	163	206	255
	Horizontal Throw Vt 0,25	mt	2,5	5,0	7,6	10,1	12,6	15,1	17,6	20,2	22,7	25,2
	Vertical Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,6
	Noise Level	dB(A)	24	32	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions



## QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 1500 1 SLOT</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	269	322	376	430	484	537
	Pressure Drop	Pa	1	5	11	20	31	45	61	79	101	124
	Horizontal Throw Vt 0,25	mt	2,0	4,0	5,9	7,9	9,9	11,9	13,9	15,9	17,8	19,8
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9
	Noise Level	dB(A)	20	27	32	36	40	43	46	49	52	54
<b>DFL 1500 2 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	24	38	55	74	97	123	152
	Horizontal Throw Vt 0,25	mt	2,9	5,7	8,6	11,5	14,4	17,2	20,1	23,0	25,9	28,7
	Vertical Throw Vt 0,25	mt	2,0	4,0	6,0	8,0	10,1	12,1	14,1	16,1	18,1	20,1
	Noise Level	dB(A)	21	28	34	38	42	45	49	51	54	57
<b>DFL 1500 3 SLOT</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	322	484	645	806	967	1128	1290	1451	1612
	Pressure Drop	Pa	3	10	23	42	65	94	128	167	211	260
	Horizontal Throw Vt 0,25	mt	3,4	6,7	10,1	13,5	16,8	20,2	23,6	26,9	30,3	33,7
	Vertical Throw Vt 0,25	mt	2,4	4,7	7,1	9,4	11,8	14,1	16,5	18,8	21,2	23,6
	Noise Level	dB(A)	23	32	38	43	47	51	55	58	61	64
<b>DFL 1500 4 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	3	11	25	45	70	100	136	178	226	278
	Horizontal Throw Vt 0,25	mt	3,8	7,6	11,4	15,2	19,0	22,8	26,6	30,4	34,1	37,9
	Vertical Throw Vt 0,25	mt	2,7	5,3	8,0	10,6	13,3	15,9	18,6	21,2	23,9	26,6
	Noise Level	dB(A)	24	32	38	43	48	52	55	59	62	65

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DFL 2000 1 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	2	7	16	28	44	63	86	112	142	175
	Horizontal Throw Vt 0,25	mt	2,6	5,3	7,9	10,6	13,2	15,9	18,5	21,2	23,8	26,5
	Vertical Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,5
	Noise Level	dB(A)	20	27	33	38	42	45	49	52	55	57
<b>DFL 2000 2 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	2	8	19	34	53	76	104	135	171	211
	Horizontal Throw Vt 0,25	mt	3,9	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
	Vertical Throw Vt 0,25	mt	2,7	5,4	8,1	10,9	13,6	16,3	19,0	21,7	24,4	27,1
	Noise Level	dB(A)	21	29	35	39	44	47	51	54	57	60
<b>DFL 2000 3 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	2	9	20	36	56	80	109	142	180	222
	Horizontal Throw Vt 0,25	mt	4,5	9,0	13,5	18,1	22,6	27,1	31,6	36,1	40,6	45,1
	Vertical Throw Vt 0,25	mt	3,2	6,3	9,5	12,6	15,8	19,0	22,1	25,3	28,4	31,6
	Noise Level	dB(A)	21	29	35	40	44	48	51	55	58	61
<b>DFL 2000 4 SLOT</b> Ak: 0,0796m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	287	573	860	1146	1433	1719	2006	2292	2579	2866
	Pressure Drop	Pa	4	16	37	66	103	148	201	263	333	411
	Horizontal Throw Vt 0,25	mt	5,1	10,1	15,2	20,2	25,3	30,4	35,4	40,5	45,6	50,6
	Vertical Throw Vt 0,25	mt	3,5	7,1	10,6	14,2	17,7	21,3	24,8	28,3	31,9	35,4
	Noise Level	dB(A)	24	33	40	46	51	55	59	63	66	70

Note: the data indicated refer to operation in isothermal conditions

# DEL-P

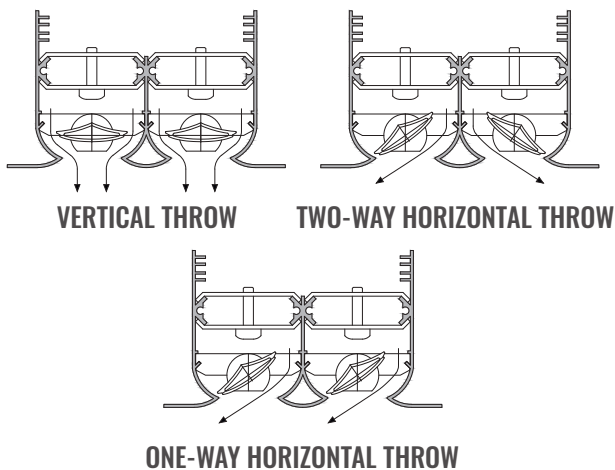


Linear slot diffuser with adjustable PVC deflectors without predisposition for damper and equalizer, with a high induction ratio (mixing capacity) between inlet air and ambient air.

Consisting of aluminum profiles coupled to obtain multiple slits inside which adjustable plastic deflectors are housed. The flow of the incoming air can be oriented in the right, left or alternating direction, by varying the position of the deflectors.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	FASTENING TO PLENUM
2,5 to 4 m	The DEL 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. The diffuser can be equipped with damper and equalizer.	Extruded anodised aluminium profiles, ABS supports and black PVC deflectors	Anodized aluminium, black deflectors. On request, frame coating in RAL 9010 or nonstandard RAL colours.	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, EQ



**WELL**

Contributes to credits:  
AIR, THERMAL COMFORT,  
MATERIALS, COMMUNITY

**BREEAM**<sup>®</sup>

**BREEAM**

Contributes to credits:  
MAN, HEA, WST

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










## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
800	1	800	797	829,8	44,4	67,0	56,2
	2	800	797	829,8	87,6	110,2	56,2
	3	800	797	829,8	130,8	153,4	56,2
	4	800	797	829,8	174,0	196,6	56,2
1000	1	1000	997	1029,8	44,4	67,0	56,2
	2	1000	997	1029,8	87,6	110,2	56,2
	3	1000	997	1029,8	130,8	153,4	56,2
	4	1000	997	1029,8	174,0	196,6	56,2

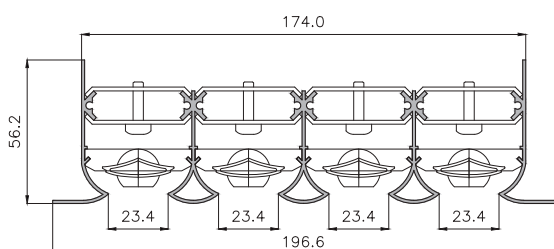
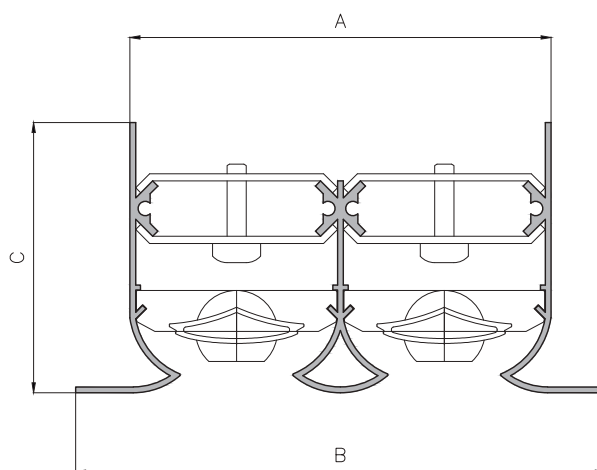
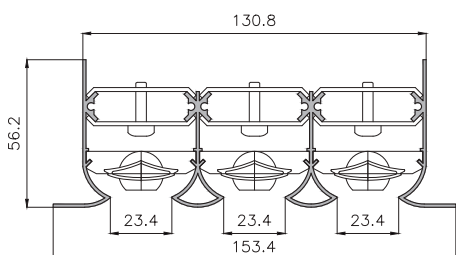
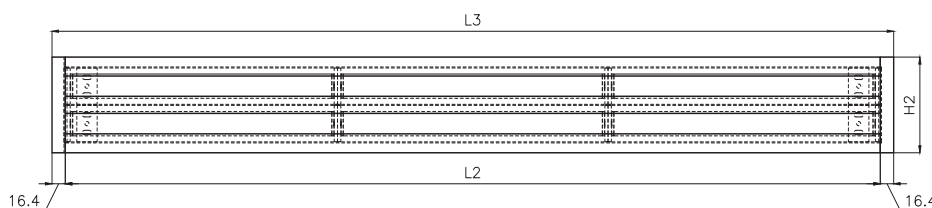
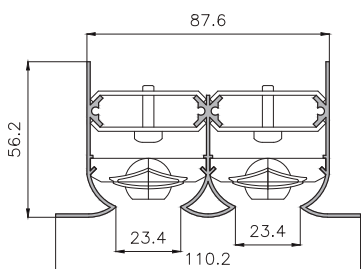
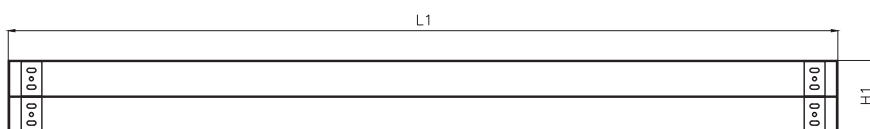
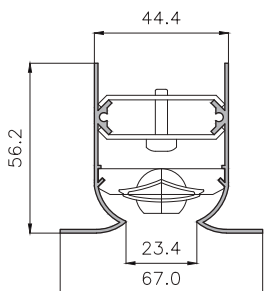
## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
1500	1	1500	1497	1529,8	44,4	67,0	56,2
	2	1500	1497	1529,8	87,6	110,2	56,2
	3	1500	1497	1529,8	130,8	153,4	56,2
	4	1500	1497	1529,8	174,0	196,6	56,2
2000	1	2000	1997	2029,8	44,4	67,0	56,2
	2	2000	1997	2029,8	87,6	110,2	56,2
	3	2000	1997	2029,8	130,8	153,4	56,2
	4	2000	1997	2029,8	174,0	196,6	56,2

## APPLICATIONS

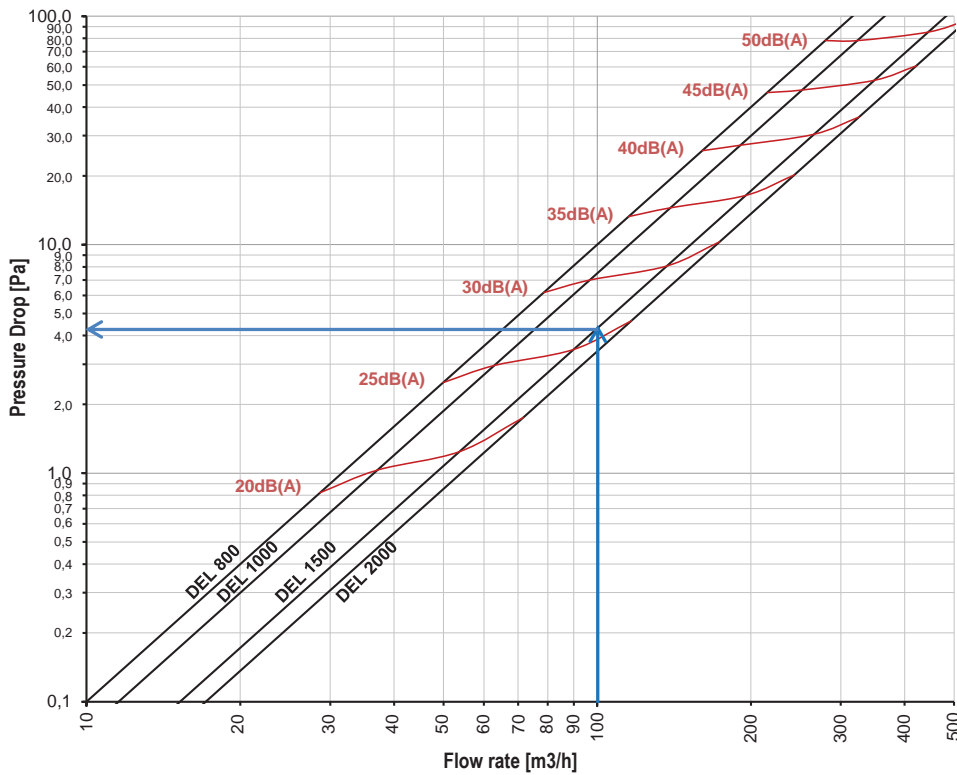
								
Residential	Easy Pack	Calculation Method	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design

\*on request



## Selection Charts

Flow Rate / Pressure Drop / Noise Level  
Models DEL - 1 Slot



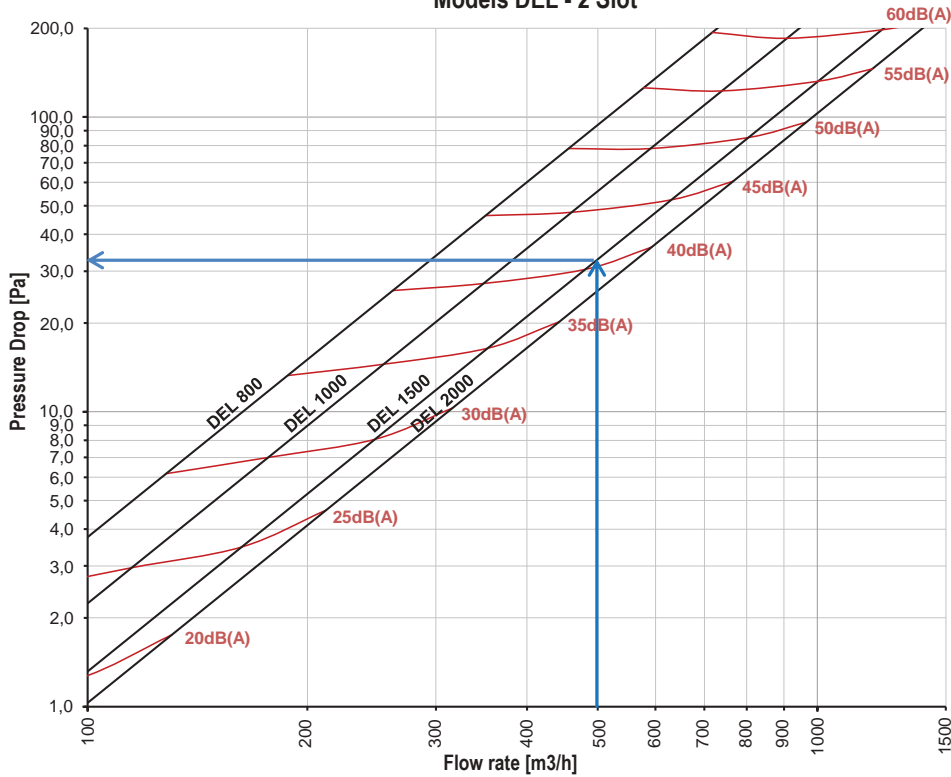
### Diagram 1 - 1 slot

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

#### CALCULATION (input data)

Total Flow Rate	100 m <sup>3</sup> /h
Max Noise Level	<30dB(A).
Horizontal Throw	4,0m.
Vertical Throw	2,8m

Flow Rate / Pressure Drop / Noise Level  
Models DEL - 2 Slot



#### SELECTION

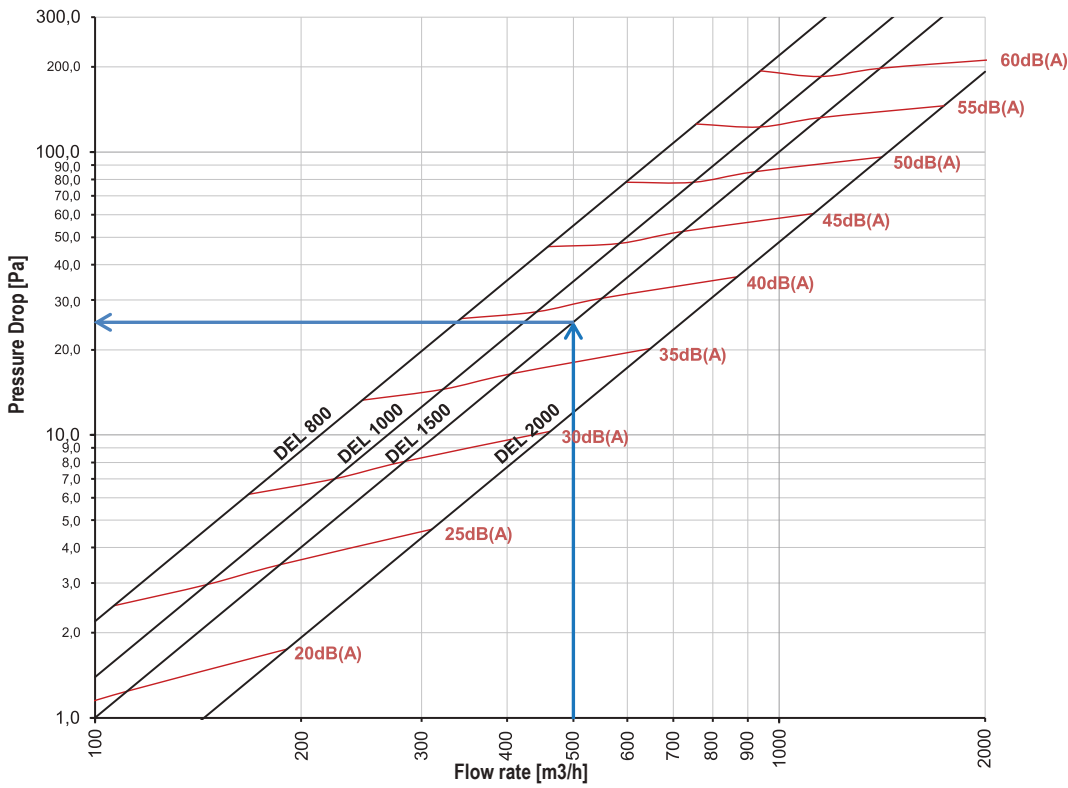
Model	DEL 1500 1 SLOT
Flow Rate	107 m <sup>3</sup> /h
Pressure Drop	5Pa
Noise Level	27dB(A)
Inlet Air Speed	2m/s
Horizontal Isothermal Throw	4,0m
Vertical Isothermal Throw	2,8m

### Diagram 2 - 2 slots

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

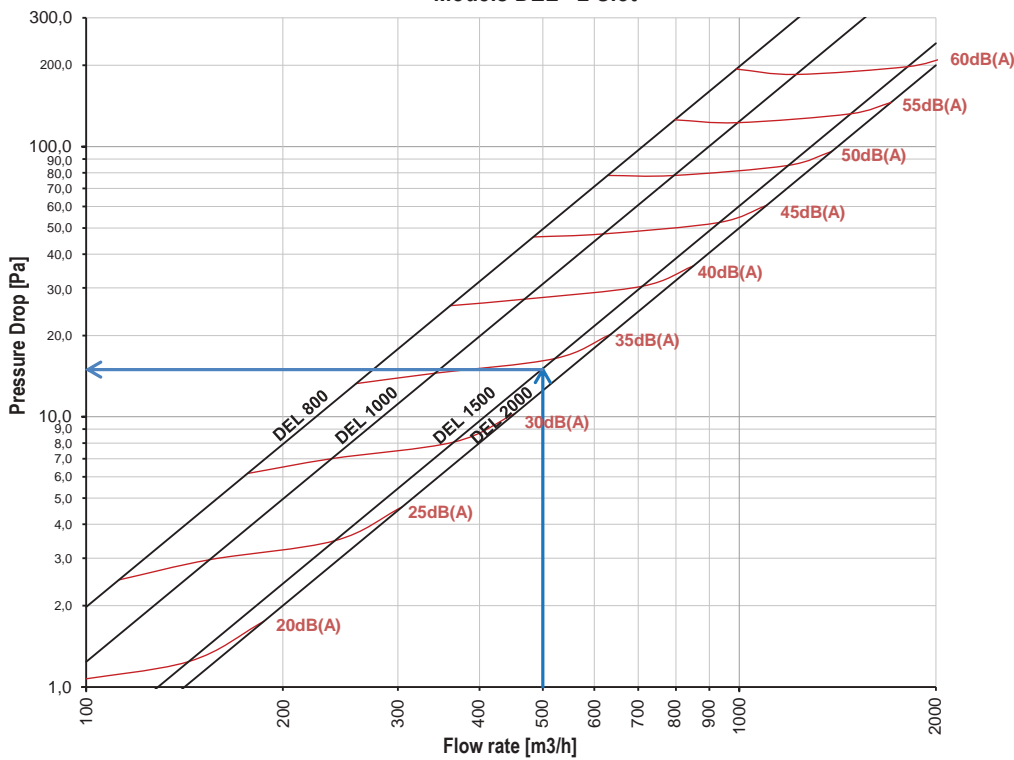
Flow Rate / Pressure Drop / Noise Level  
Models DEL - 3 Slot

Diagram 3 - 3 slots



Flow Rate / Pressure Drop / Noise Level  
Models DEL - 2 Slot

Diagram 4 - 4 slots



## QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 800 1 SLOT</b> Ak: 0,0080m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	29	57	86	115	143	172	201	229	258	287
	Pressure Drop	Pa	1	3	7	13	21	30	40	53	67	82
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,6
	Vertical Throw Vt 0,25	mt	0,7	1,5	2,2	3,0	3,7	4,4	5,2	5,9	6,6	7,4
	Noise Level	dB(A)	20	26	31	35	38	41	44	46	48	50
<b>DEL 800 2 SLOT</b> Ak: 0,0159m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	115	172	229	287	344	401	458	516	573
	Pressure Drop	Pa	1	5	11	20	31	44	61	79	100	124
	Horizontal Throw Vt 0,25	mt	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12,0	13,5	15,0
	Vertical Throw Vt 0,25	mt	1,0	2,1	3,1	4,2	5,2	6,3	7,3	8,4	9,4	10,5
	Noise Level	dB(A)	22	29	34	38	41	45	47	50	53	55
<b>DEL 800 3 SLOT</b> Ak: 0,0239m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	86	172	258	344	430	516	602	688	774	860
	Pressure Drop	Pa	2	6	15	26	41	58	80	104	131	162
	Horizontal Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,9	10,6	12,4	14,2	15,9	17,7
	Vertical Throw Vt 0,25	mt	1,2	2,5	3,7	5,0	6,2	7,4	8,7	9,9	11,2	12,4
	Noise Level	dB(A)	23	30	36	40	44	47	50	53	56	58
<b>DEL 800 4 SLOT</b> Ak: 0,0318m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	115	229	344	458	573	688	802	917	1032	1146
	Pressure Drop	Pa	3	10	23	42	65	94	127	166	211	260
	Horizontal Throw Vt 0,25	mt	2,0	4,0	6,1	8,1	10,1	12,1	14,1	16,2	18,2	20,2
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,7	7,1	8,5	9,9	11,3	12,7	14,1
	Noise Level	dB(A)	25	33	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 1000 1 SLOT</b> Ak: 0,0099m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	36	72	107	143	179	215	251	287	322	358
	Pressure Drop	Pa	1	4	9	15	24	35	47	61	78	96
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Vertical Throw Vt 0,25	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	20	26	31	35	39	42	45	48	50	52
<b>DEL 1000 2 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	1	5	10	18	29	41	56	74	93	115
	Horizontal Throw Vt 0,25	mt	1,9	3,8	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8
	Vertical Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Noise Level	dB(A)	20	27	33	37	40	44	47	49	52	54
<b>DEL 1000 3 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	26	40	58	79	103	130	161
	Horizontal Throw Vt 0,25	mt	2,2	4,4	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2
	Vertical Throw Vt 0,25	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,6
	Noise Level	dB(A)	22	29	35	40	43	47	50	53	56	58
<b>DEL 1000 4 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	3	10	23	41	64	92	125	163	206	255
	Horizontal Throw Vt 0,25	mt	2,5	5,0	7,6	10,1	12,6	15,1	17,6	20,2	22,7	25,2
	Vertical Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,6
	Noise Level	dB(A)	24	32	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions



## QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 1500 1 SLOT</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	269	322	376	430	484	537
	Pressure Drop	Pa	1	5	11	20	31	45	61	79	101	124
	Horizontal Throw Vt 0,25	mt	2,0	4,0	5,9	7,9	9,9	11,9	13,9	15,9	17,8	19,8
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9
	Noise Level	dB(A)	20	27	32	36	40	43	46	49	52	54
<b>DEL 1500 2 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	24	38	55	74	97	123	152
	Horizontal Throw Vt 0,25	mt	2,9	5,7	8,6	11,5	14,4	17,2	20,1	23,0	25,9	28,7
	Vertical Throw Vt 0,25	mt	2,0	4,0	6,0	8,0	10,1	12,1	14,1	16,1	18,1	20,1
	Noise Level	dB(A)	21	28	34	38	42	45	49	51	54	57
<b>DEL 1500 3 SLOT</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	322	484	645	806	967	1128	1290	1451	1612
	Pressure Drop	Pa	3	10	23	42	65	94	128	167	211	260
	Horizontal Throw Vt 0,25	mt	3,4	6,7	10,1	13,5	16,8	20,2	23,6	26,9	30,3	33,7
	Vertical Throw Vt 0,25	mt	2,4	4,7	7,1	9,4	11,8	14,1	16,5	18,8	21,2	23,6
	Noise Level	dB(A)	23	32	38	43	47	51	55	58	61	64
<b>DEL 1500 4 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	3	11	25	45	70	100	136	178	226	278
	Horizontal Throw Vt 0,25	mt	3,8	7,6	11,4	15,2	19,0	22,8	26,6	30,4	34,1	37,9
	Vertical Throw Vt 0,25	mt	2,7	5,3	8,0	10,6	13,3	15,9	18,6	21,2	23,9	26,6
	Noise Level	dB(A)	24	32	38	43	48	52	55	59	62	65

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 2000 1 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	2	7	16	28	44	63	86	112	142	175
	Horizontal Throw Vt 0,25	mt	2,6	5,3	7,9	10,6	13,2	15,9	18,5	21,2	23,8	26,5
	Vertical Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,5
	Noise Level	dB(A)	20	27	33	38	42	45	49	52	55	57
<b>DEL 2000 2 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	2	8	19	34	53	76	104	135	171	211
	Horizontal Throw Vt 0,25	mt	3,9	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
	Vertical Throw Vt 0,25	mt	2,7	5,4	8,1	10,9	13,6	16,3	19,0	21,7	24,4	27,1
	Noise Level	dB(A)	21	29	35	39	44	47	51	54	57	60
<b>DEL 2000 3 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	2	9	20	36	56	80	109	142	180	222
	Horizontal Throw Vt 0,25	mt	4,5	9,0	13,5	18,1	22,6	27,1	31,6	36,1	40,6	45,1
	Vertical Throw Vt 0,25	mt	3,2	6,3	9,5	12,6	15,8	19,0	22,1	25,3	28,4	31,6
	Noise Level	dB(A)	21	29	35	40	44	48	51	55	58	61
<b>DEL 2000 4 SLOT</b> Ak: 0,0796m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	287	573	860	1146	1433	1719	2006	2292	2579	2866
	Pressure Drop	Pa	4	16	37	66	103	148	201	263	333	411
	Horizontal Throw Vt 0,25	mt	5,1	10,1	15,2	20,2	25,3	30,4	35,4	40,5	45,6	50,6
	Vertical Throw Vt 0,25	mt	3,5	7,1	10,6	14,2	17,7	21,3	24,8	28,3	31,9	35,4
	Noise Level	dB(A)	24	33	40	46	51	55	59	63	66	70

Note: the data indicated refer to operation in isothermal conditions

# DEL-A

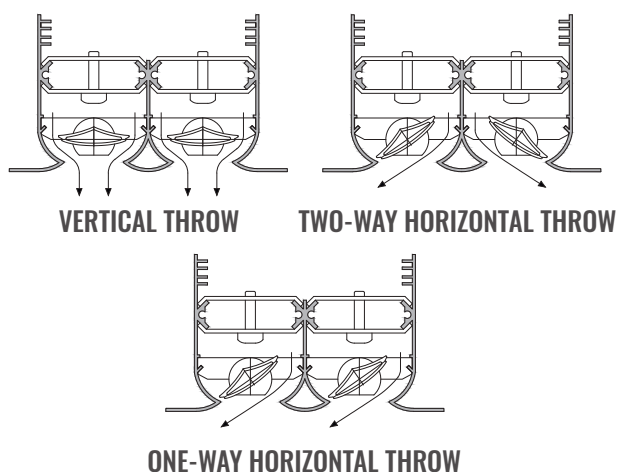


Linear slot diffuser with adjustable aluminum deflectors without predisposition for damper and equalizer, with a high induction ratio (mixing capacity) between the input air and the ambient air.

Made up of aluminum profiles coupled to obtain multiple slits inside which adjustable aluminum deflectors are housed. The flow of the incoming air can be oriented in the right, left or alternating direction, by varying the position of the deflectors.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	SURFACE FINISH	FASTENING TO PLENUM
2,5 to 4 m	The DEL 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. The diffuser can be equipped with damper and equalizer.	extruded anodised aluminium profiles and anodised aluminium deflectors	anodized aluminium. On request, frame coating in RAL 9010 or non-standard RAL colours.	by means of side screws or a central screw



VERTICAL THROW

TWO-WAY HORIZONTAL THROW

ONE-WAY HORIZONTAL THROW

## 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, EQ



WELL

Contributes to credits:  
AIR, THERMAL COMFORT,  
MATERIALS, COMMUNITY

BREEAM®

BREEAM

Contributes to credits:  
MAN, HEA, WST

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










## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
800	1	800	797	821	44,4	67,0	62,2
	2	800	797	821	87,6	110,2	62,2
	3	800	797	821	130,8	153,4	62,2
	4	800	797	821	174,0	196,6	62,2
1000	1	1000	997	1021	44,4	67,0	62,2
	2	1000	997	1021	87,6	110,2	62,2
	3	1000	997	1021	130,8	153,4	62,2
	4	1000	997	1021	174,0	196,6	62,2

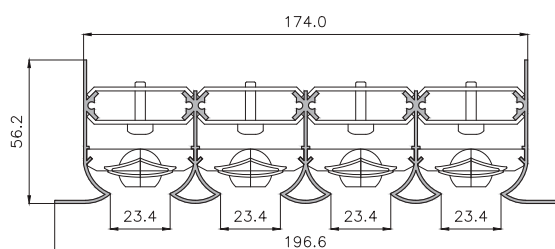
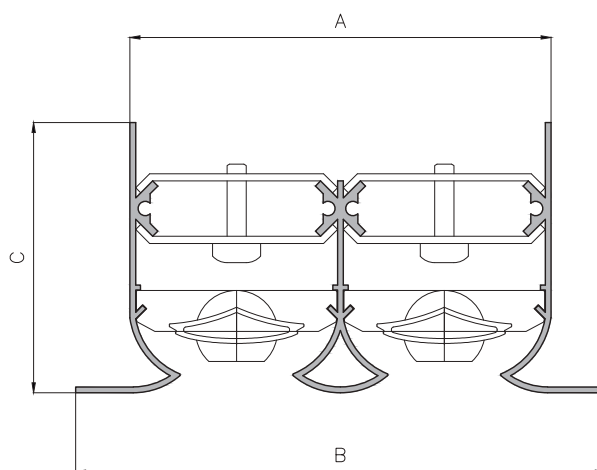
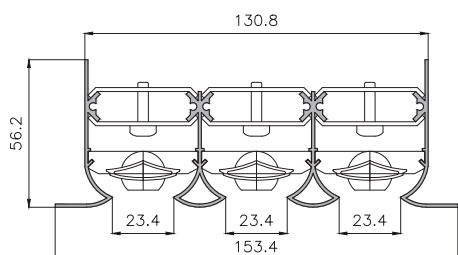
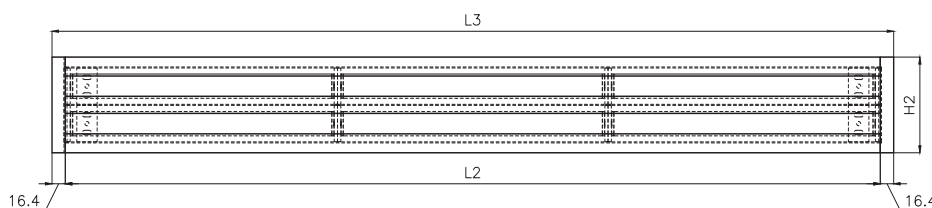
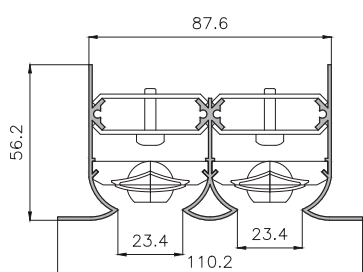
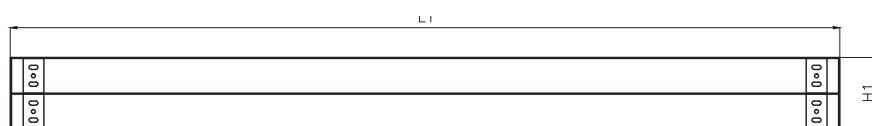
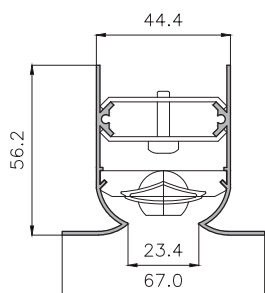
## TECHNICAL DATA

Length [mm]	Slot n.	L1 [mm]	L2 [mm]	L3 [mm]	A [mm]	B [mm]	C [mm]
1500	1	1500	1497	1521	44,4	67,0	62,2
	2	1500	1497	1521	87,6	110,2	62,2
	3	1500	1497	1521	130,8	153,4	62,2
	4	1500	1497	1521	174,0	196,6	62,2
2000	1	2000	1997	2021	44,4	67,0	62,2
	2	2000	1997	2021	87,6	110,2	62,2
	3	2000	1997	2021	130,8	153,4	62,2
	4	2000	1997	2021	174,0	196,6	62,2

## APPLICATIONS

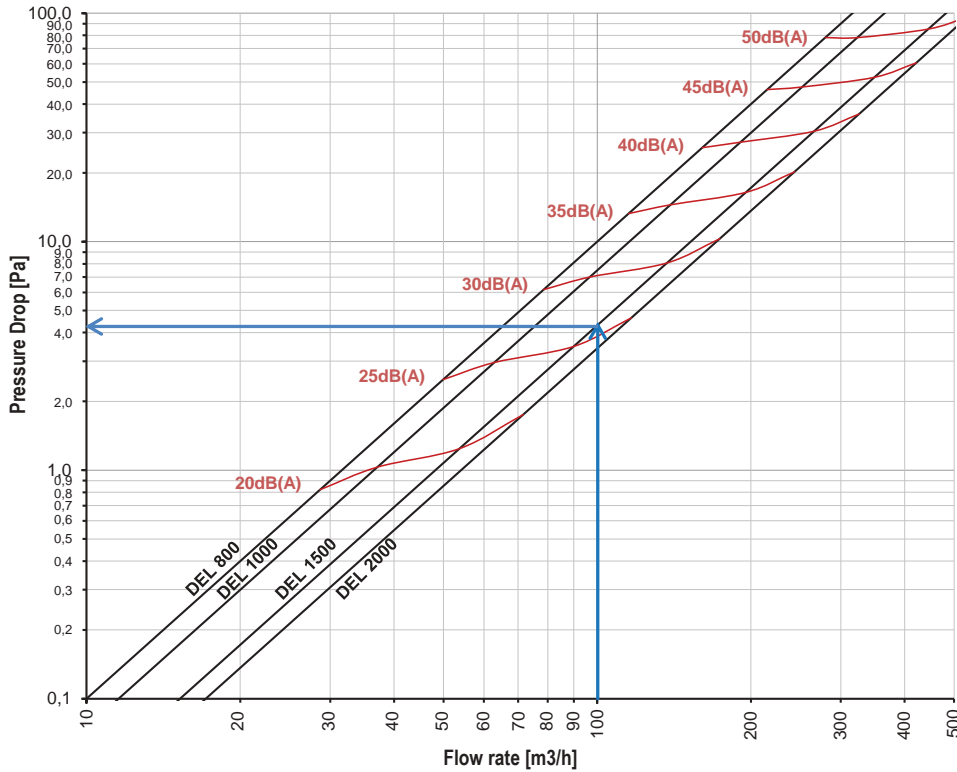
								
Residential	Easy Pack	Calculation Method	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design

\*on request



## Selection Charts

Flow Rate / Pressure Drop / Noise Level  
Models DEL - 1 Slot



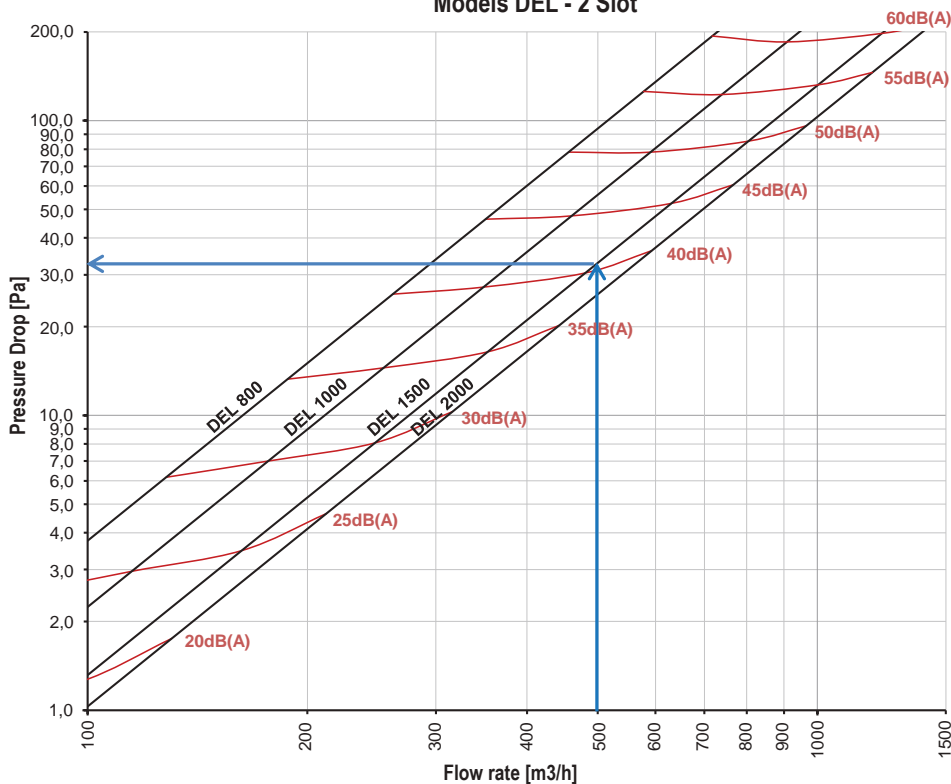
### Diagram 1 - 1 slot

The diagram shows the pressure drop of the diffuser based on the flow rate with relative indication of the sound power level without environmental attenuation.

#### CALCULATION (input data)

Total Flow Rate	100 m <sup>3</sup> /h
Max Noise Level	<30dB(A).
Horizontal Throw	4,0m.
Vertical Throw	2,8m

Flow Rate / Pressure Drop / Noise Level  
Models DEL - 2 Slot



#### SELECTION

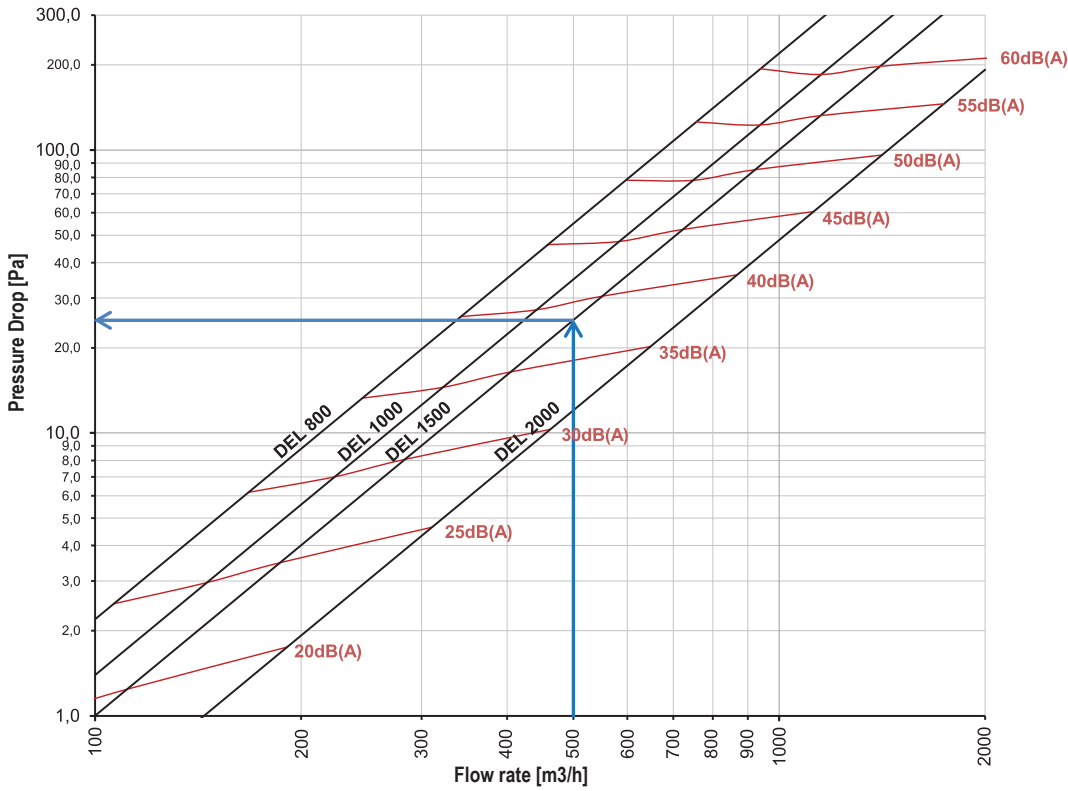
Model	DEL 1500 1 SLOT
Flow Rate	107 m <sup>3</sup> /h
Pressure Drop	5Pa
Noise Level	27dB(A)
Inlet Air Speed	2m/s
Horizontal Isothermal Throw	4,0m
Vertical Isothermal Throw	2,8m

### Diagram 2 - 2 slots

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

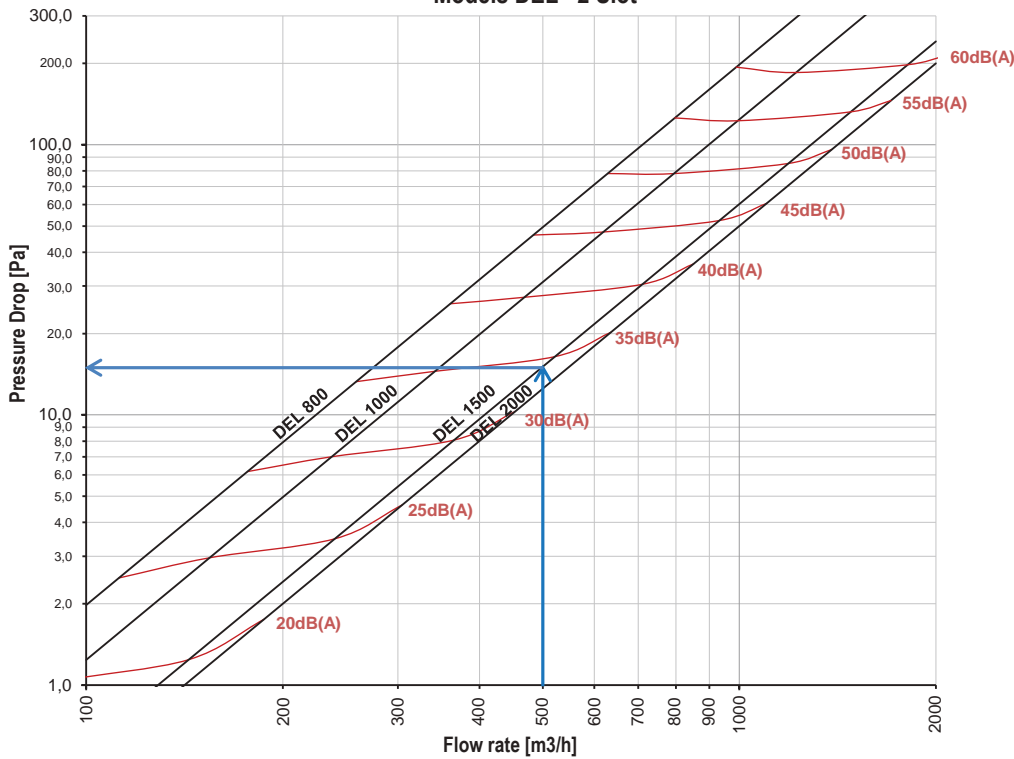
Flow Rate / Pressure Drop / Noise Level  
Models DEL - 3 Slot

Diagram 3 - 3 slots



Flow Rate / Pressure Drop / Noise Level  
Models DEL - 2 Slot

Diagram 4 - 4 slots



## QUICK SELECTION TABLE - L. 800mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 800 1 SLOT</b> Ak: 0,0080m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	29	57	86	115	143	172	201	229	258	287
	Pressure Drop	Pa	1	3	7	13	21	30	40	53	67	82
	Horizontal Throw Vt 0,25	mt	1,1	2,1	3,2	4,2	5,3	6,3	7,4	8,4	9,5	10,6
	Vertical Throw Vt 0,25	mt	0,7	1,5	2,2	3,0	3,7	4,4	5,2	5,9	6,6	7,4
	Noise Level	dB(A)	20	26	31	35	38	41	44	46	48	50
<b>DEL 800 2 SLOT</b> Ak: 0,0159m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	57	115	172	229	287	344	401	458	516	573
	Pressure Drop	Pa	1	5	11	20	31	44	61	79	100	124
	Horizontal Throw Vt 0,25	mt	1,5	3,0	4,5	6,0	7,5	9,0	10,5	12,0	13,5	15,0
	Vertical Throw Vt 0,25	mt	1,0	2,1	3,1	4,2	5,2	6,3	7,3	8,4	9,4	10,5
	Noise Level	dB(A)	22	29	34	38	41	45	47	50	53	55
<b>DEL 800 3 SLOT</b> Ak: 0,0239m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	86	172	258	344	430	516	602	688	774	860
	Pressure Drop	Pa	2	6	15	26	41	58	80	104	131	162
	Horizontal Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,9	10,6	12,4	14,2	15,9	17,7
	Vertical Throw Vt 0,25	mt	1,2	2,5	3,7	5,0	6,2	7,4	8,7	9,9	11,2	12,4
	Noise Level	dB(A)	23	30	36	40	44	47	50	53	56	58
<b>DEL 800 4 SLOT</b> Ak: 0,0318m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	115	229	344	458	573	688	802	917	1032	1146
	Pressure Drop	Pa	3	10	23	42	65	94	127	166	211	260
	Horizontal Throw Vt 0,25	mt	2,0	4,0	6,1	8,1	10,1	12,1	14,1	16,2	18,2	20,2
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,7	7,1	8,5	9,9	11,3	12,7	14,1
	Noise Level	dB(A)	25	33	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 1000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 1000 1 SLOT</b> Ak: 0,0099m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	36	72	107	143	179	215	251	287	322	358
	Pressure Drop	Pa	1	4	9	15	24	35	47	61	78	96
	Horizontal Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Vertical Throw Vt 0,25	mt	0,9	1,8	2,8	3,7	4,6	5,5	6,5	7,4	8,3	9,2
	Noise Level	dB(A)	20	26	31	35	39	42	45	48	50	52
<b>DEL 1000 2 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	1	5	10	18	29	41	56	74	93	115
	Horizontal Throw Vt 0,25	mt	1,9	3,8	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8
	Vertical Throw Vt 0,25	mt	1,3	2,6	4,0	5,3	6,6	7,9	9,2	10,5	11,9	13,2
	Noise Level	dB(A)	20	27	33	37	40	44	47	49	52	54
<b>DEL 1000 3 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	26	40	58	79	103	130	161
	Horizontal Throw Vt 0,25	mt	2,2	4,4	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2
	Vertical Throw Vt 0,25	mt	1,6	3,1	4,7	6,2	7,8	9,3	10,9	12,4	14,0	15,6
	Noise Level	dB(A)	22	29	35	40	43	47	50	53	56	58
<b>DEL 1000 4 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	3	10	23	41	64	92	125	163	206	255
	Horizontal Throw Vt 0,25	mt	2,5	5,0	7,6	10,1	12,6	15,1	17,6	20,2	22,7	25,2
	Vertical Throw Vt 0,25	mt	1,8	3,5	5,3	7,1	8,8	10,6	12,4	14,1	15,9	17,6
	Noise Level	dB(A)	24	32	39	44	48	52	55	58	61	64

Note: the data indicated refer to operation in isothermal conditions



## QUICK SELECTION TABLE - L. 1500mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 1500 1 SLOT</b> Ak: 0,0149m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	54	107	161	215	269	322	376	430	484	537
	Pressure Drop	Pa	1	5	11	20	31	45	61	79	101	124
	Horizontal Throw Vt 0,25	mt	2,0	4,0	5,9	7,9	9,9	11,9	13,9	15,9	17,8	19,8
	Vertical Throw Vt 0,25	mt	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9
	Noise Level	dB(A)	20	27	32	36	40	43	46	49	52	54
<b>DEL 1500 2 SLOT</b> Ak: 0,0298m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	107	215	322	430	537	645	752	860	967	1075
	Pressure Drop	Pa	2	6	14	24	38	55	74	97	123	152
	Horizontal Throw Vt 0,25	mt	2,9	5,7	8,6	11,5	14,4	17,2	20,1	23,0	25,9	28,7
	Vertical Throw Vt 0,25	mt	2,0	4,0	6,0	8,0	10,1	12,1	14,1	16,1	18,1	20,1
	Noise Level	dB(A)	21	28	34	38	42	45	49	51	54	57
<b>DEL 1500 3 SLOT</b> Ak: 0,0448m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	161	322	484	645	806	967	1128	1290	1451	1612
	Pressure Drop	Pa	3	10	23	42	65	94	128	167	211	260
	Horizontal Throw Vt 0,25	mt	3,4	6,7	10,1	13,5	16,8	20,2	23,6	26,9	30,3	33,7
	Vertical Throw Vt 0,25	mt	2,4	4,7	7,1	9,4	11,8	14,1	16,5	18,8	21,2	23,6
	Noise Level	dB(A)	23	32	38	43	47	51	55	58	61	64
<b>DEL 1500 4 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	3	11	25	45	70	100	136	178	226	278
	Horizontal Throw Vt 0,25	mt	3,8	7,6	11,4	15,2	19,0	22,8	26,6	30,4	34,1	37,9
	Vertical Throw Vt 0,25	mt	2,7	5,3	8,0	10,6	13,3	15,9	18,6	21,2	23,9	26,6
	Noise Level	dB(A)	24	32	38	43	48	52	55	59	62	65

Note: the data indicated refer to operation in isothermal conditions

## QUICK SELECTION TABLE - L. 2000mm - ISOTHERMAL CONDITIONS

MODEL	DESCRIPTION	U.M.	Vi (m/sec)									
			1	2	3	4	5	6	7	8	9	10
<b>DEL 2000 1 SLOT</b> Ak: 0,0199m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	72	143	215	287	358	430	501	573	645	716
	Pressure Drop	Pa	2	7	16	28	44	63	86	112	142	175
	Horizontal Throw Vt 0,25	mt	2,6	5,3	7,9	10,6	13,2	15,9	18,5	21,2	23,8	26,5
	Vertical Throw Vt 0,25	mt	1,9	3,7	5,6	7,4	9,3	11,1	13,0	14,8	16,7	18,5
	Noise Level	dB(A)	20	27	33	38	42	45	49	52	55	57
<b>DEL 2000 2 SLOT</b> Ak: 0,0398m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	143	287	430	573	716	860	1003	1146	1290	1433
	Pressure Drop	Pa	2	8	19	34	53	76	104	135	171	211
	Horizontal Throw Vt 0,25	mt	3,9	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
	Vertical Throw Vt 0,25	mt	2,7	5,4	8,1	10,9	13,6	16,3	19,0	21,7	24,4	27,1
	Noise Level	dB(A)	21	29	35	39	44	47	51	54	57	60
<b>DEL 2000 3 SLOT</b> Ak: 0,0597m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	215	430	645	860	1075	1290	1504	1719	1934	2149
	Pressure Drop	Pa	2	9	20	36	56	80	109	142	180	222
	Horizontal Throw Vt 0,25	mt	4,5	9,0	13,5	18,1	22,6	27,1	31,6	36,1	40,6	45,1
	Vertical Throw Vt 0,25	mt	3,2	6,3	9,5	12,6	15,8	19,0	22,1	25,3	28,4	31,6
	Noise Level	dB(A)	21	29	35	40	44	48	51	55	58	61
<b>DEL 2000 4 SLOT</b> Ak: 0,0796m <sup>2</sup>	Flow Rate	m <sup>3</sup> /h	287	573	860	1146	1433	1719	2006	2292	2579	2866
	Pressure Drop	Pa	4	16	37	66	103	148	201	263	333	411
	Horizontal Throw Vt 0,25	mt	5,1	10,1	15,2	20,2	25,3	30,4	35,4	40,5	45,6	50,6
	Vertical Throw Vt 0,25	mt	3,5	7,1	10,6	14,2	17,7	21,3	24,8	28,3	31,9	35,4
	Noise Level	dB(A)	24	33	40	46	51	55	59	63	66	70

Note: the data indicated refer to operation in isothermal conditions

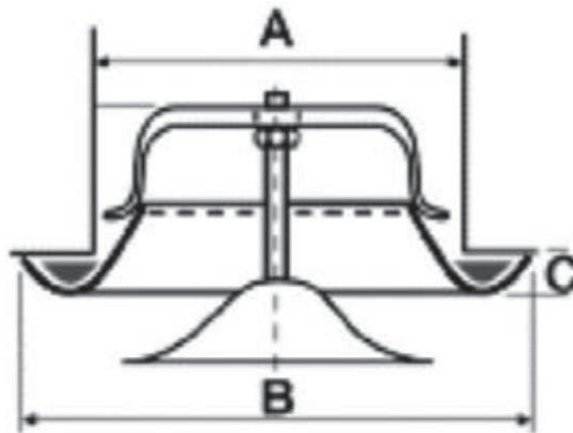


# VEA

Steel ventilation valve diffuser. The air flow rate is adjusted by screwing (reducing the flow rate) or unscrewing (increasing the flow rate) the central disc.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	COLOR	FASTENING	INSTALLATION	ADJUSTMENT
2,5 to 4 m	suitable for injecting or extracting air into/from small rooms (bathrooms, kitchens); it can also be used as return terminal in medium-large rooms.	Steel	RAL 9016 white.	ceiling-mounted or fitted directly on the ventilation or return duct in service rooms	Easy installation, adjustments and maintenance. The central disc is easy to remove by unscrewing the fastening nut and the central pin.	the air flow rate is adjusted by turning the disc away from (increasing the flow rate) or towards (reducing the flow rate) the external neck








## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø C [mm]
100	100	137	12
150	160	212	12
200	200	248	12

## TECHNICAL DATA

Model	Flow Rates	Cone opening [mm]	Pressure drop [Pa]	Noise level [dB(A)]	
100	100	10	50	25	
		5	90	28	
		0	180	35	
	125	10	70	28	
		5	140	34	
	150	10	100	33	
5		200	38		
150	160	5	46	22	
		0	70	24	
		-5	120	30	
	190	5	70	25	
		0	100	28	
		-5	180	35	
	220	10	55	24	
		5	85	28	
		0	130	32	
		-5	180	35	
	250	10	70	27	
		5	130	32	
		0	180	35	
	200	300	10	35	22
			0	65	32
-5			88	30	
-10			140	36	
350		10	49	26	
		0	100	34	
400		10	55	28	
		0	120	35	

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request

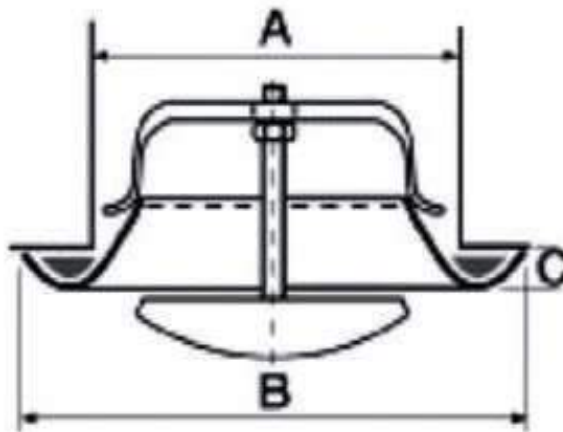


# VMA

Steel ventilation valve diffuser for extraction. The air flow rate is adjusted by screwing (reducing the flow rate) or unscrewing (increasing the flow rate) the central disc.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	COLOR	FASTENING	INSTALLATION	ADJUSTMENT
2,5 to 4 m	suitable for extracting air into/from small rooms (bathrooms, kitchens); it can also be used as return terminal in medium-large rooms.	Steel	RAL 9016 white.	ceiling-mounted or fitted directly on the ventilation or return duct in service rooms	Easy Installation, adjustments and maintenance. The central disc is easy to remove by unscrewing the fastening nut and the central pin.	the air flow rate is adjusted by turning the disc away from (increasing the flow rate) or towards (reducing the flow rate) the external neck








## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø C [mm]
100	100	137	12
150	160	212	12
200	200	248	12

## TECHNICAL DATA

Model	Flow Rate [m3/h]	Cone opening [mm]	Pressure drop [Pa]	Noise level [dB(A)]
100	80	8	35	25
		6	55	30
		4	85	34
	100	10	58	33
		8	72	36
	120	10	68	36
150	160	10	25	20
		5	42	23
		2	70	30
	200	10	40	24
		5	68	30
		2	95	35
	250	15	38	26
		10	59	30
		5	95	36
20		25	25	
200	300	15	35	27
		12	50	30
		20	35	30
	350	15	55	33
		12	70	35
		20	50	34
	400	15	65	36

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request

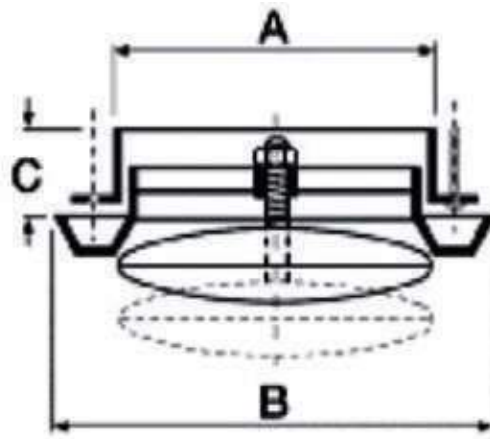


# VMP

Polypropylene ventilation valve diffuser. The air flow rate is adjusted by screwing (reducing the flow rate) or unscrewing (increasing the flow rate) the central disc.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIAL	COLOR	FASTENING	INSTALLATION	ADJUSTMENT
2,5 to 4 m	suitable for extracting air into/from small rooms (bathrooms, kitchens); it can also be used as return terminal in medium-large rooms.	Polypropylene	RAL 9016 white.	ceiling-mounted or fitted directly on the ventilation or return duct in service rooms	Easy Installation, adjustments and maintenance. The central disc is easy to remove by unscrewing the fastening nut and the central pin.	the air flow rate is adjusted by turning the disc away from (increasing the flow rate) or towards (reducing the flow rate) the external neck








## TECHNICAL DATA

Model	Ø A [mm]	Ø B [mm]	Ø C [mm]
100	100	150	20
150	150	190	20
200	200	240	20

## TECHNICAL DATA

Model	Flow rate [m <sup>3</sup> /h]	Cone opening [mm]	Pressure drop [Pa]	Noise [dB(A)]
100	54	15	25	25
	72	18	40	30
	108	20	80	38
150	108	10	70	40
	144	18	68	35
	180	25	70	33
200	108	17	60	38
	144	22	68	35
	180	25	72	35

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request



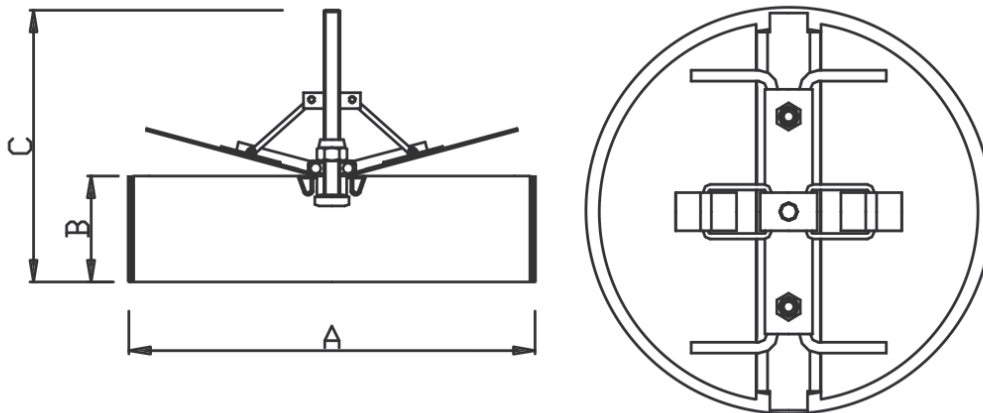


# SER 01

Calibration butterfly damper suitable for installation upstream of the galvanised steel circular diffusers complete with opening/closing mechanism.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

MATERIAL	SURFACE FINISH	FASTENING
Steel	Galvanised	<ul style="list-style-type: none"> <li>Screws to the diffuser neck or the piping</li> <li>The SER01 calibration butterfly damper is suitable for installation upstream of the circular diffusers. It is made of galvanised steel and comes complete with a robust and rigid opening/closing mechanism in order to prevent vibration and noise when the air passes through.</li> <li>Easy installation, adjustments and maintenance.</li> <li>The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser.</li> </ul>








## TECHNICAL DATA

ø Nominal	Ø A	B	C
100	95	39	100
150	145	39	100
160	155	39	100

## TECHNICAL DATA

Ø Nominal	Ø A	B	C
200	195	39	100
250	245	39	100
300	295	39	100
315	310	39	100
350	345	39	100
400	395	39	100
450	445	39	100
500	495	39	100

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request

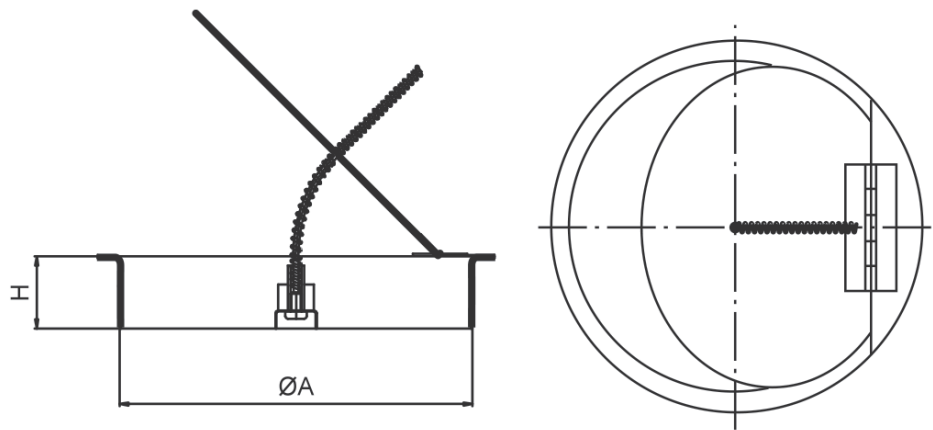


# SER 02

Collection damper suitable for installation upstream of the galvanised steel circular diffusers complete with opening/closing mechanism.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

MATERIAL	SURFACE FINISH	FASTENING
Steel	Galvanised	<ul style="list-style-type: none"> <li>Screws to the diffuser neck or the piping</li> <li>The SER02 calibration butterfly damper is suitable for installation upstream of the circular diffusers. It is made of galvanised steel and comes complete with a robust and rigid opening/closing mechanism in order to prevent vibration and noise when the air passes through.</li> <li>Easy installation, adjustments and maintenance.</li> <li>The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser.</li> </ul>








## TECHNICAL DATA

Ø Nominal	Ø A	H
100	97	40
150	147	40
160	157	40

## TECHNICAL DATA

∅ Nominal	∅ A	H
200	197	40
250	247	40
300	297	40
315	312	40
350	347	40
400	397	40
450	447	40
500	497	40

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request

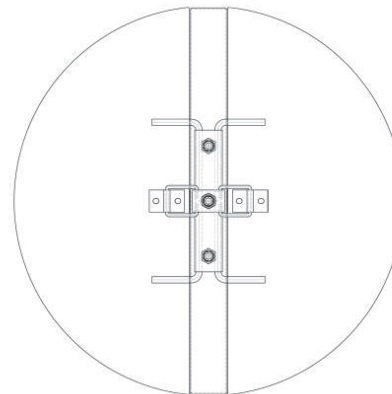
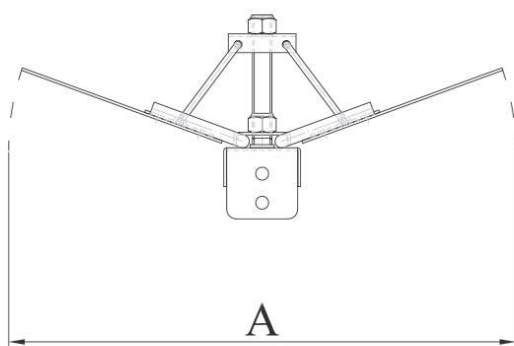


# SER 03

Calibration butterfly damper suitable for installation upstream of the galvanised steel circular diffusers complete with opening/closing mechanism.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

MATERIAL	SURFACE FINISH	FASTENING
Steel	Galvanised	<ul style="list-style-type: none"> <li>Screws to the diffuser neck or the piping</li> <li>SER03 calibration butterfly damper is suitable for installation upstream of the circular diffusers. It is made of galvanised steel and comes complete with a robust and rigid opening/closing mechanism in order to prevent vibration and noise when the air passes through.</li> <li>Easy installation, adjustments and maintenance.</li> <li>The damper fitted at the top of the diffuser is adjusted by acting on the adjustment screw through the hole in the threaded bar of the diffuser.</li> </ul>








## TECHNICAL DATA

$\varnothing$ Nominal	$\varnothing A$
100	97
150	147
160	157

## TECHNICAL DATA

Ø Nominal	Ø A
200	197
250	247
300	297
315	312
350	347
400	397
450	447
500	497

## APPLICATIONS

				
Residential	REACH Certificate	RoHS Certificate	Industry	Building

\*on request



# P01L

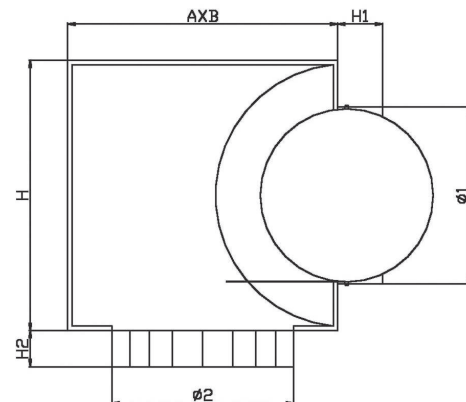
Plenum with side outlet for circular diffusers with adjustable cones and for variable geometry diffusers.

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	With screws to the diffuser neck

## APPLICATION

The plenum P01 is suitable for installation on circular diffusers with adjustable cones. It is made of galvanized steel and can be coated with insulating material and be equipped with an equalizer and calibration damper with opening and closing lever.



## TECHNICAL DATA

Nominal Ø [mm]	A x B [mm]	H [mm]	H1 [mm]	H2 [mm]	Ø 1 [mm]	Ø 2 [mm]
100	200	200	85	50	96	102
150	251	220	85	50	150	150
160	251	220	85	50	160	160
200	291	220	85	50	198	200
250	341	310	85	50	248	250
300	391	360	85	50	298	303
315	406	375	85	50	313	318
350	441	410	85	50	348	353
400	550	550	85	50	396	402
450	600	600	85	50	446	452
500	730	730	85	50	496	502
630	730	730	85	50	626	632

## GREEN BUILDING

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## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request





# P02L

Plenum with side outlet for diffusers with adjustable deflectors.

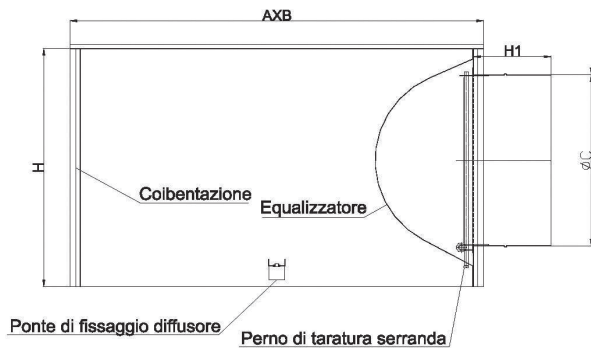
## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

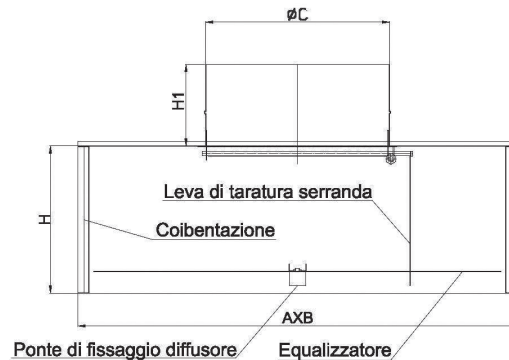
## APPLICATION

The plenum P02 is suitable for installation on diffusers with adjustable deflectors. It is made of galvanized steel. It can be coated with insulating material and be equipped with an equalizer and calibration slide gate with opening and closing pin. The inlet is positioned on the side of the plenum.

Standard product with side inlet



Product on request with vertical inlet



## TECHNICAL DATA

Nominal Ø [mm]	A x B [mm]	H [mm]	H1 [mm]	Ø C [mm]
300	291x291	245	110	150
400	391x391	295	110	200
500	491x491	295	110	200
600	591x591	345	110	250
625	621x621	345	110	250
800	791x791	395	110	250

## GREEN BUILDING

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## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request



# P03L

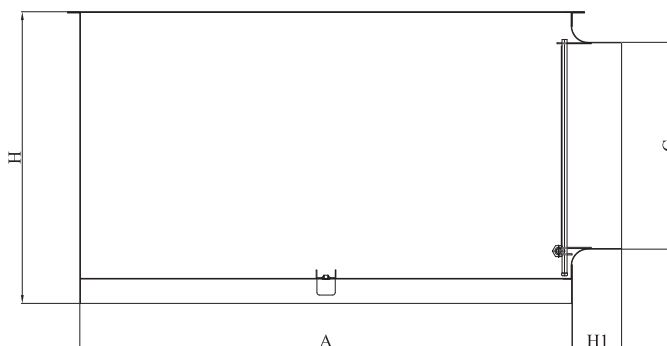
Plenum with side outlet for circular diffusers with adjustable deflectors

## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

### APPLICATION

The P03 plenum is suitable for installation on diffusers with adjustable deflectors. It is made of galvanized steel. It can be coated with insulating material and be equipped with an equalizer and calibration damper with opening and closing pin. The inlet is positioned on the side of the plenum.



## TECHNICAL DATA

Nominal Ø [mm]	Ø A [mm]	H [mm]	H1 [mm]	Ø C [mm]
300	291	248	40	150
400	391	300	40	200
500	491	298	40	200
600	591	348	40	248
625	611	348	40	248
800	791	398	40	320

## 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:



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IP, MR



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Contribuisce ai seguenti crediti:  
MATERIALS, COMMUNITY

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*Su richiesta

# P05L

Plenum with side outlet for continuous linear diffusers.

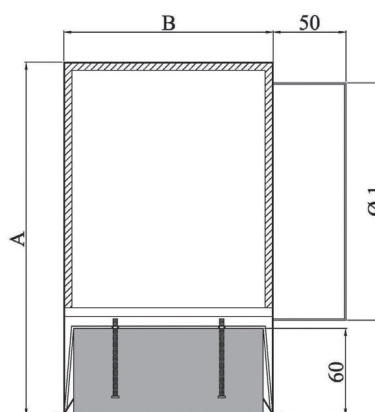


## TECHNICAL SPECIFICATION AND USAGE LIMIT

INSTALLATION	MATERIAL	SURFACE FINISH	ADJUSTMENT	FASTENING:
Easy installation, adjustments and maintenance.	Galvanized steel.	Galvanized	The damper positioned at the plenum inlet is adjusted by means of the integrated lever.	By lateral screws or central screw.

### APPLICATION

The series of P05 plenums is suitable for installation on continuous linear diffusers. It is made of galvanised steel. It can be coated with insulating material and be equipped with a calibration damper with opening and closing pin moved with an Allen wrench. The inlet is positioned on the side of the plenum.



## TECHNICAL DATA - PLENUM SIZE

	1 SLOT	2 SLOTS	3 SLOTS	4 SLOTS
A [mm]	200	240	240	285
B [mm]	59	102	145	189
Ø 1 [mm]	125	160	160	200

## TECHNICAL DATA - PLENUM INLET

STANDARD LENGTH [mm]	INLET NR. [n.]	SLOT NR. [n.]	INLET Ø [mm]
800	1	1	125
	1	2	160
	1	3	160
	1	4	200

## TECHNICAL DATA - PLENUM INLET

STANDARD LENGTH [mm]	INLET NR. [n.]	SLOT NR. [n.]	INLET Ø [mm]
1000	1	1	125
	1	2	160
	1	3	160
	1	4	200
1500	2	1	125
	2	2	160
	2	3	160
	2	4	200
2000	2	1	125
	2	2	160
	2	3	160
	2	4	200

## 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**

Contribuisce ai seguenti crediti:  
IP, MR



**WELL**

Contribuisce ai seguenti crediti:  
MATERIALS, COMMUNITY

**BREEAM®**

**BREEAM**

Contribuisce ai seguenti crediti:  
MAN

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

## APPLICATIONS

Residential	Mold Resistant	Microorganism Resistance	REACH Certificate	RoHS Certificate	Building	Air Conditioning	Grilles and diffusers

\*on request

## PAYMENT OF INVOICES

All invoices must be paid to:

TECNICA Srl - VIA DEGLI INTARSIATORI ROLESÌ, 1-42047 ROLO (RE) - ITALY only.

In the event of delayed payments, TECNICA srl shall be entitled to charge interest at the business rate (prime rate plus three percentage points) for each month or, in proportion, for a fraction of the month of delay.

## WARRANTIES AND LIABILITIES

TECNICA srl warrants that the products have been made in compliance with the technical specifications indicated on the technical sheets. TECNICA srl disclaims all liability for any damage suffered by the customer's buyers as a result of the inadequate fulfilment of the obligations towards them, with special reference to consumer information entitlements.

## CLAIMS

Any claims due to faulty goods must be notified in writing to TECNICA srl - VIA DEGLI INTARSIATORI ROLESÌ, 1 - 42047 ROLO (RE) - ITALY within 8 days from receipt. Only returned goods authorized by TECNICA srl will be accepted and these must be in their original, integral and complete packaging.

## MISCELLANEOUS

These general sales conditions shall be deemed known and accepted by effect of the sending of a purchase order by the customer to TECNICA srl and may be changed by Tecnica srl by means of simple written notice.

## HOW TO PLACE AN ORDER

Tecnica srl has certified quality. Consequently, all orders must be placed in written form and sent by fax or email. Phone orders must be followed by a written document within the following 2 days.

For each order, Tecnica srl will send an order confirmation showing model and/or technical specifications, quantity and prices quoted for the ordered products.

Whenever, within two days after the sending of such document, this is not returned to us corrected or amended, it shall be deemed tacitly approved and supply shall be regularly made.

Subsequent amendments shall produce a further new order with due charge of the previous one.

## GENERAL SUPPLY TERMS

The material is packed in standard wrapping (single or multi-piece). Packs normally contain minimum amount of material that can be supplied. On request, we can supply even lower quantities at differentiated prices; in this case a packaging surcharge may apply.

Tecnica srl, on request, can design and supply its product range made to specific demands.

Goods travel at the customer's risk, unless otherwise agreed.

Tecnica srl shall execute orders which have been placed and accepted, just as quickly as possible, and will notify the customer in case of any delays. Under no circumstance shall the customer be entitled to cancel an order already placed and accepted without the prior agreement of Tecnica srl. By placing the order with Tecnica srl, the customer fully accepts the conditions, the notes and the warnings indicated in this catalogue and also contained in the other documents produced by Tecnica srl (offers, order confirmations, transport documents, etc.).

A number of precautions must be taken as regards the products storage to prevent any possible deterioration of the material. Stored products must be protected against dust and direct sunlight, in dry premises, and the articles must be kept in their original packaging and only opened when they are to be used. Too much damp can damage the plastic materials used and corrode the metal parts. The articles must be stored flat and not crushed by weights. They must never be hung on hooks, wires or nails.

## DELIVERY TIMES

For products in stock, prompt delivery as long as stocks last.

For products not in stock, approximate delivery times are 15/20 days from order confirmation date.

The delivery date indicated on the order confirmation documents shall be deemed the Tecnica ex-works delivery date.

## PRODUCT DELIVERY

Material will only be dispatched via carrier indicated by TECNICA srl, except in the case of an express request of the customer and with delivery carriage forward.

For goods transport, if required with free-destination with charge, the customer will be charged a contribution with amount indicated on invoice. Any notification of accidents, loss or faults affecting the goods shall be sent by fax to TECNICA srl within 24 hours from receipt of goods.

In the event of such notification not being made within the aforementioned term TECNICA srl disclaims all liability.



**TECNICA<sup>TM</sup>**

Efficient Indoor Air Project



TECNICA srl  
is a company certified  
UNI EN 9001:2015  
issued by TUV ITALIA,  
Certificate number 50100 15241

# TECNICA™

Efficient Indoor Air Project

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