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# **Swirl Diffuser Solutions for Open Ceilings**



## NEX-C Circular Fixed-Vanes Swirl Diffusers

Offices · Hotels · Shopping Centers



### Description

- Designed for air supply/return in air conditioning and ventilation systems.
- High-induction Swirl diffusion.
- Mounted on continuous ceilings or suspended ceiling tiles.
- Suitable for airflow rates from 90 to 1500 m<sup>3</sup>/h.
- Compatible with CAV or VAV systems.
- Unique vanes shape ensures uniform air flow across the entire passage section.



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## RXO-C Circular Fixed-Vanes Swirl Diffusers

Offices · Hotels · Shopping Centers

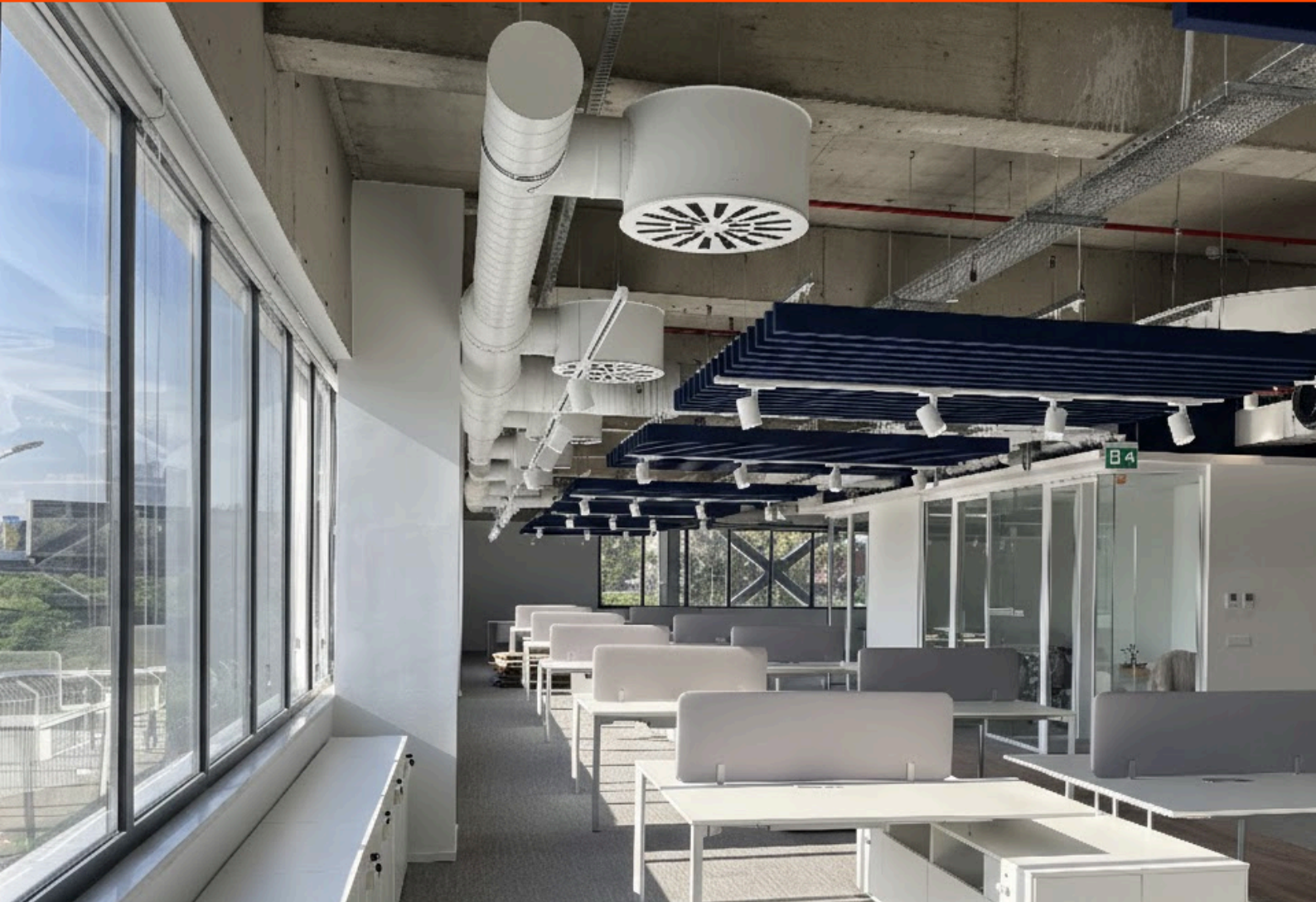


### Description

- Designed for air supply/return in air conditioning and ventilation systems.
- High-induction Swirl diffusion.
- Mounted on continuous ceilings.
- Suitable for airflow rates from 150 to 820 m<sup>3</sup>/h.
- Compatible with CAV or VAV systems.
- Unique vanes shape ensures uniform airflow across the entire passage section.

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## AXO-C/CY Adjustable Slot Swirl Diffusers

Offices · Hotels · Hospitals

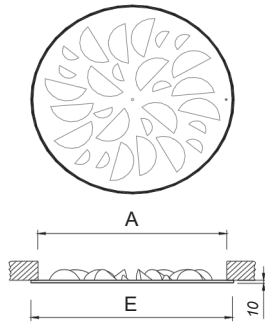


### Description

- Designed for supply/return air in air conditioning and ventilation systems.
- High induction swirl diffusion.
- Mounting on continuous or modular ceiling.
- For flow rates from 90 to 1500 m<sup>3</sup>/h.
- Diffusers suitable for CAV or VAV installations.
- Individually adjustable slots to adapt the diffuser to different architectures.



Lievore,  
Altherr  
& Molina

**Technical data**
**NEX-C**


	E	A
400	400	376
500	500	476
625	625	601


**Description**

Circular swirl diffusers with fixed concave elements to be used from 2,6 up to 4 metres high. Constructed from galvanised steel and diffusion elements in ABS plastic.

**NEX-C** Circular diffuser with black ABS elements.

**Accessories**

**POX/L/** Cylindrical plenum box with a lateral circular connection. Constructed from galvanized steel.

**.../S/** Upper circular connection.

**...-R** Air flow damper in the spigot (COR required)

**.../AIS/** Thermal insulation inside. Reaction to fire classification B-s1,d0 EN 13501-1.

**.../RAL/** Plenum box painted RAL colours : see INFO page.

**COR** Cords to regulate the damper type-R from the face of the diffuser.

**PMXO** Crossbar for mounting in false ceiling with rectangular duct.

**Fixing**

1) Connection into the crossbar or to the plenum box by means of central screw.

**Finishes**

**R9016S** Painted white RAL 9016 semi-matt (60-70% gloss)

**R9010S** Painted white RAL 9010 semi-matt (60-70% gloss)

**RAL...** Painted in other RAL colours : see INFO page.

**.../EB/** ABS plastic elements in white.

**.../EL/** ABS plastic elements in lavanda blue.

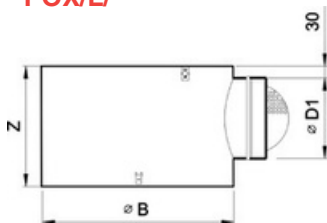
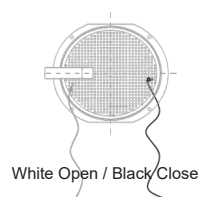
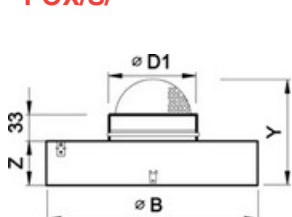
**.../EV/** ABS plastic elements in pistachio green.

**.../ER/** ABS plastic elements in red.

**Specification Text**

Supply and mounting of circular swirl diffuser with fixed concave elements in radial disposition series **NEX-C+POX/L/ R9016S**

**dim. 625** constructed from galvanised steel paint in white RAL 9016 (60-70% gloss) and diffusion elements in black ABS. With lateral circular connection plenum box. Manufacturer **MADEL**.

**POX/L/**

**COR**

**POX/S/**

**POX/L/**


POX/L	B	Z	D1
400	386	300	198
500	486	300	198
625	611	350	248

POX/S/	B	Y	Z	D1
400	386	258	140	198
500	486	258	140	198
625	611	343	200	248

## Technical datasheet

Diffuser in swirl pattern.

ISOTHERMAL air conditions

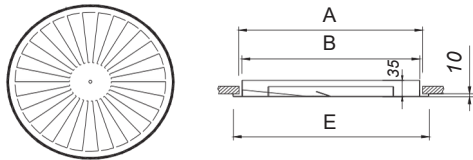
Technical data considering standard plenum boxes

Dim mm	m3/h	75	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
	l/s	21	42	56	69	83	97	111	139	167	194	222	278	333	416
400	vf		2,1	2,8	3,5	4,2	4,8								
	Lw(A)		16	23	28	33	36								
	Dpt		5	9	13	19	25								
	AI02		1,5	2	2,5	3	3,5								
500	Vf				2,4	2,9	3,4	3,8	4,8						
	Lw(A)				24	28	33	36	42						
	Dpt				8	11	15	19	30						
	AI02				2	2,4	2,8	3,2	4						
600 610 625 675	vf						2,2	2,5	3,2	3,8	4,4	5,1			
	Lw(A)						26	29	34	38	41	44			
	Dpt						8	10	16	22	30	38			
	AI02						2,4	2,7	3,4	4,1	4,7	5,4			

## Fixed vanes swirl diffusers

## Technical data

## RXO-C



	E	A	B
400	400	370	340
500	500	470	440
625	625	568	538



## Description

Circular swirl diffuser with fixed blades to be used from 2,6 up to 4 metres high. Constructed from galvanised steel.

**RXO-C** Diffuser with radial vanes.

## Accessories

**POX/L/** Cylindrical plenum box with a lateral circular connection.

Constructed from galvanised steel.

**.../S/** Upper circular connection.

**...-R** Air flow damper in the spigot (COR required)

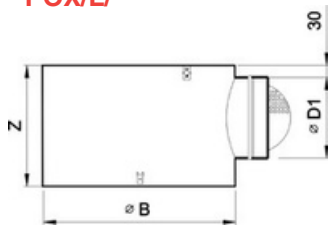
**.../AIS/** Thermal insulation inside. Reaction to fire classification B-s1,d0 EN 13501-1.

**.../RAL/** Plenum box painted RAL colours : see INFO page.

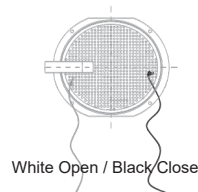
**COR** Cords to regulate the damper type-R from the face of the diffuser.

**PMXO** Crossbar for mounting in false ceiling with rectangular duct.

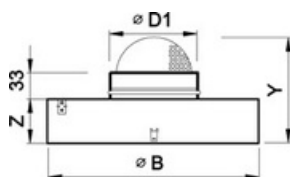
## POX/L/



## COR



## POX/S/



## POX/L/



POX/L	B	Z	D1
400	386	300	198
500	486	300	198
625	611	350	248

POX/S/	B	Y	Z	D1
400	386	258	140	198
500	486	258	140	198
625	611	343	200	248

## Fixing

1) Connection into the crossbar or to the plenum box by means of central screw.

## Finishes

**R9016S** Painted white RAL 9016 semi-matt (60-70% gloss)

**R9010S** Painted white RAL 9010 semi-matt (60-70% gloss)

**RAL...** Painted in other RAL colours : see INFO page.

## Specification Text

Supply and mounting of circular swirl diffuser with fixed blades with radial vanes series **RXO-C+POX/L/-R R9016S dim. 625** constructed from galvanised steel paint in white RAL 9016 (60-70% gloss) with lateral circular connection plenum box and air flow damper in the spigot. Manufacturer **MADEL**.

## Technical datasheet

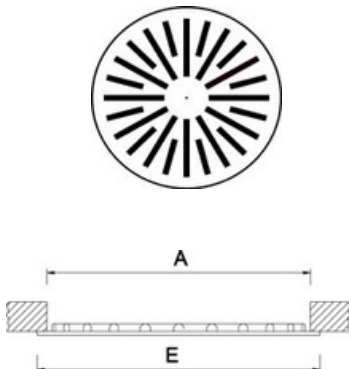
Diffuser in swirl pattern.

ISOTHERMAL air conditions

Technical data considering standard plenum boxes

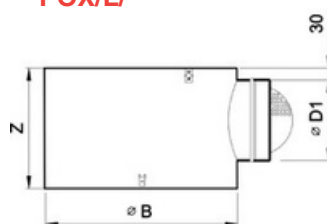
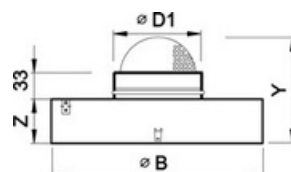
Number of slots	m3/h	75	150	200	250	300	350	400	500	600	700	800	900	1200	1500
	l/s	21	42	56	69	83	97	111	139	167	194	222	250	333	416
400	vf		2,5	3,4	4,2	5,1									
	Lw(A)		19	26	32	37									
	Dpt		5	9	13	19									
	AI02		1,2	1,7	2,2	2,7									
500	Vf				2,1	2,5	2,9	3,3	4,1	5					
	Lw(A)				20	25	29	33	39	44					
	Dpt				7	9	13	16	25	36					
	AI02				1,5	1,9	2,2	2,6	3,3	4,1					
600 610 625 675	vf							2,2	2,8	3,3	3,9	4,4	5		
	Lw(A)							23	30	35	39	43	47		
	Dpt							4	7	10	13	17	21		
	AI02							1,9	2,4	2,9	3,9	3,9	4,4		



**Technical data**
**AXO-C**

**AXO-CY**

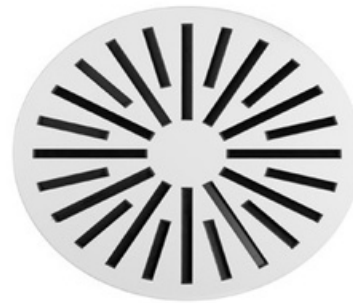

	E	A
300	300	284
400	400	376
500	500	476
625	625	601
825	825	801

**POX/L/**

**POX/L/**

**POX/S/**


POX/L/	B	Z	D1
300	286	300	198
400	386	300	198
500	486	300	198
625	611	350	248
825	811	415	313

POX/S/	B	Y	Z	D1
300	286	258	140	198
400	386	258	140	198
500	486	258	140	198
625	611	343	200	248
825	811	376	200	313


**Description**

Swirl diffusers with individually adjustable vanes, for ceiling mounting. Suitable to be used from 2,6 up to 4 meters high and at a temperature differential up to 12°C. Constructed from galvanized steel and black aluminum vanes. Provided with a perimeter sealing gasket.

**AXO-C** Circular diffuser with vanes in radial arrangement.

**...-CY** Vanes in radial inclined arrangement.

**Accessories**

**POX/L/** Cylindrical plenum box with a lateral circular connection.

Constructed from galvanized steel.

**.../S/** Upper circular connection.

**...-R** Air flow damper in the spigot.

**.../AIS/** Thermal insulation inside. Reaction to fire classification B-s1,d0 EN 13501-1.

**.../RAL/** Plenum box painted RAL colours : see INFO page.

**PMXO** Crossbar for mounting in false ceiling without plenum box.

**Fixing**

1) Connection to the crossbar or plenum box via a central screw.

**Finishes**

**R9010S** Painted white RAL 9010 (60-70%

**R9016S** gloss) Painted white RAL 9016 (60-

**RAL...** Painted gloss) Other RAL colours : see INFO page.

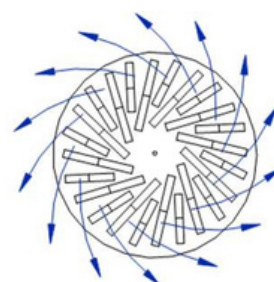
**.../AB/** Diffuser and vanes painted R9016S.

**Specification Text**

Supply and mounting of circular swirl diffuser with individually adjustable radial vanes series **AXO-C+POX/L/-R R9010S dim. 600-24** constructed from galvanized steel paint in white RAL 9010 (60-70% gloss) and black aluminum vanes. Circular plenum box with a lateral connection and air flow damper in the spigot. Manufacturer **MADEL**.

# AXO-C/CY

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## Technical datasheet

Diffuser in swirl pattern.

ISOTHERMAL air conditions

Technical data considering standard plenum boxes

Number of slots	m <sup>3</sup> /h	75	150	200	250	300	350	40	50	60	70	80	1000	1200	1500
	l/s	21	42	56	69	83	97	0	0	0	0	0	278	333	416
300-12	vf	2,1	4,2					111	139	167	194	222			
	Lw(A)	<15	25												
	Dpt	5	20												
	AI02	1,1	2,3												
400-16	vf		2,2	2,9	3,7	4,4									
	Lw(A)		<15	22	29	34									
	Dpt		7	12	18	26									
	AI02		1,5	2	2,5	3									
500-20	vf				2,4	2,9	3,4	3,8	4,8						
	Lw(A)				18	23	28	33	39						
	Dpt				8	12	16	21	31						
	AI02				2	2,4	2,8	3,3	4,1						
625-24	vf						2,1	2,4	3	3,6	4,2	4,8			
	Lw(A)						19	23	30	35	40	44			
	Dpt						7	9	14	19	26	34			
	AI02						14,3	16,3	20,4	24,4	28,5	32,6			
625-36	vf								2,2	2,6	3	3,5	4,3	5,2	
	Lw(A)								26	31	36	40	47	52	
	Dpt								9	13	17	22	34	48	
	AI02								2,5	3	3,5	4	5	6	
825-48	vf									1,6	1,8	2,1	2,6	3,1	3,9
	Lw(A)									16,3	21,8	26,6	34,6	41,1	49,1
	Dpt									3,4	4,5	5,8	8,9	12,6	19,3
	AI02									2,4	2,9	3,3	4,1	4,9	6,1



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