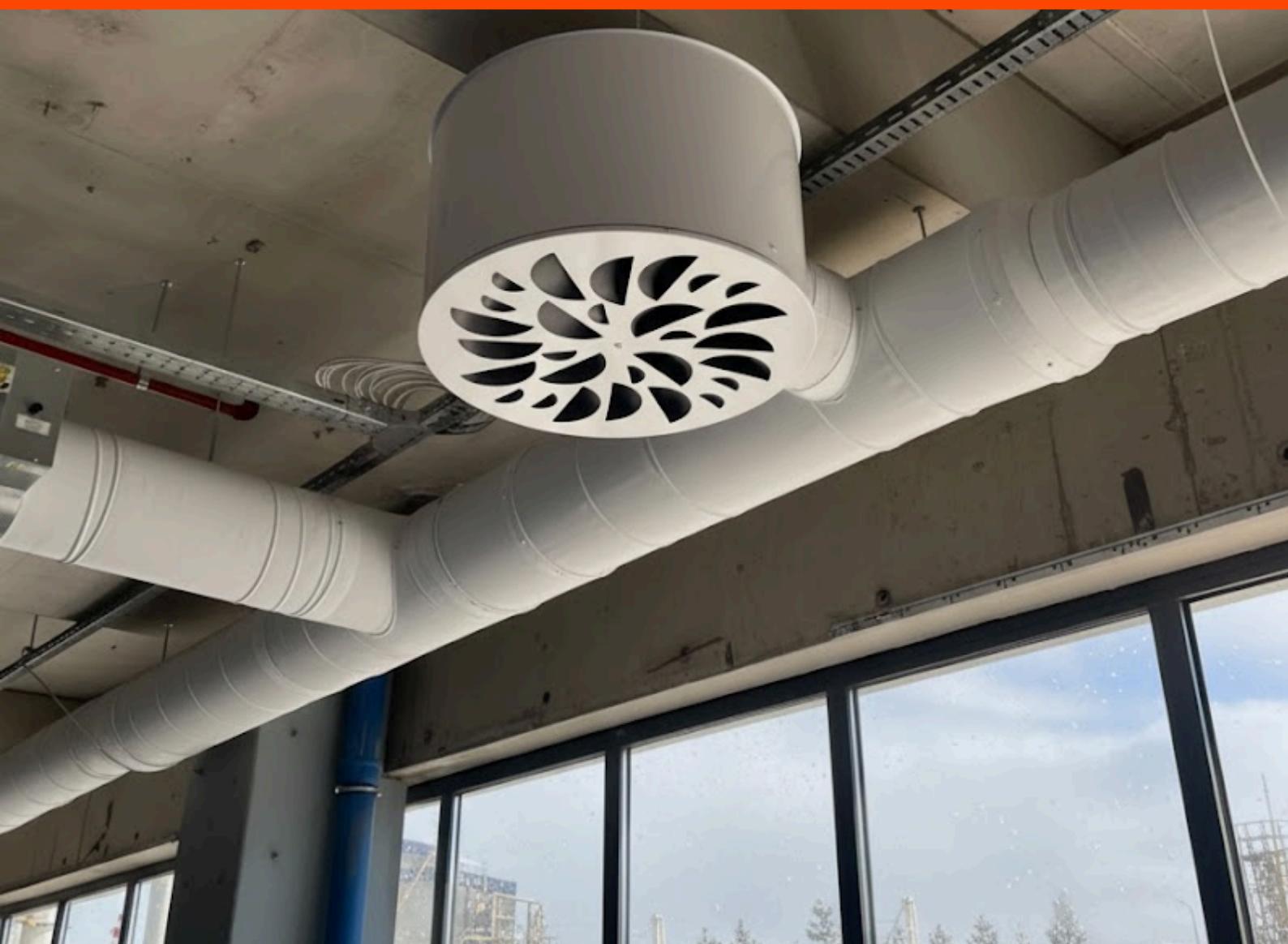


MADEL®

we shape the air



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 m³/h.
- Compatible with CAV or VAV systems.
- Unique vane shape ensures uniform air flow across the entire passage section.

MADEL®

we shape the air



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 m³/h.
- Compatible with CAV or VAV systems.
- Unique vanes shape ensures uniform airflow across the entire passage section.



AXO-C/CY AdjustableSlot SwirlDiffusers

Offices· Hotels· Hospitals



Description

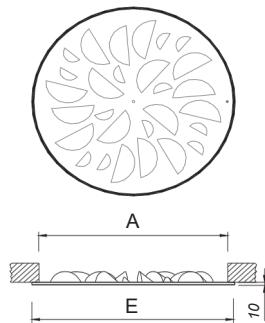
- Designed for supply/return air in air conditioning and ventilation systems.
- High induction swirl diffusion.
- Mounting on continuous or modular ceiling.
- For flow rates from 90 to 1500 m³/h.
- Diffusers suitable for CAV or VAV installations.
- Individually adjustable slots to adapt the diffuser to different architectures.

Concave elements swirl diffusers

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.

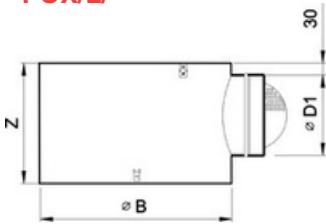
.../EV/ ABS plastic elements in pistachio green.

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

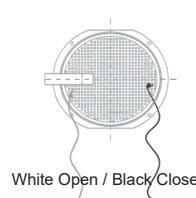
Specification Text

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**.

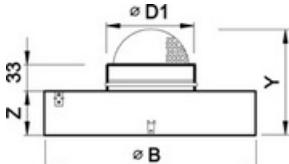
POX/L



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

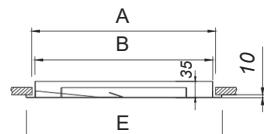
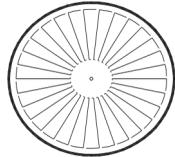
Dim mm	m3/h	75	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
	l/s	21	42	56	69	83	97	111	139	167	194	222	278	333	416
400	vf		2,1	2,8	3,5	4,2	4,8								
	Lw(A)		16	23	28	33	36								
	Dpt		5	9	13	19	25								
	AI02		1,5	2	2,5	3	3,5								
500	Vf				2,4	2,9	3,4	3,8	4,8						
	Lw(A)				24	28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



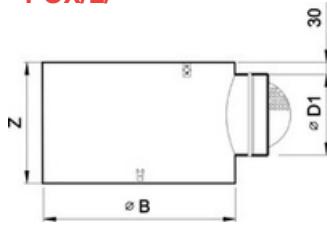
Technical data

RXO-C

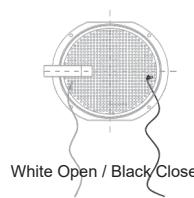


	E	A	B
400	400	370	340
500	500	470	440
625	625	568	538

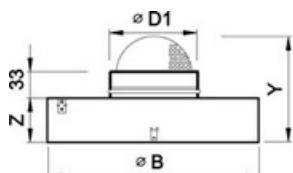
POX/L/



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

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.

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			

Adjustable vanes swirl diffusers

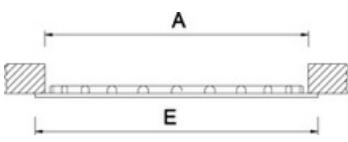
Technical data

AXO-C

AXO-CY



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



Description

Swirldiffusers withindividually adjustable vanes, for ceiling mounting. Suitable to be usedfrom 2,6 up to 4 meters high and at a temperature differential up to12°C.Constructed from galvanized steel and black aluminum vanes. Provided with a perimeter sealing gasket.

AXO-C Circulardiffuser with vanes in radial arrangement.

...-CY Vanes inradialinclined arrangement.

Accessories

POX/L/ Cylindricalplenum box with a lateral circular connection.

Constructed fromgalvanized steel.

.../S/ Upper circularconnection.

...-R Air flow damperin 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-

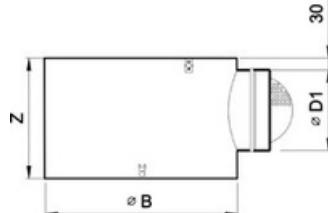
RAL... Paintedglossother RAL colours : see INFO page.

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

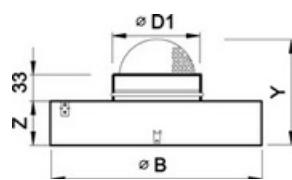
POX/L/



POX/L/



POX/S/

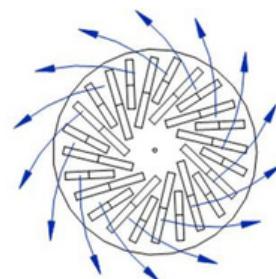


POX/L/	B	Z	D1
300	286	300	198
400	386	300	198
500	486	300	198
625	611	350	248
825	811	415	313

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

Specification Text

Supply and mountingofcircular swirl diffuser with individually adjustable radial vanes series AXO-C+POX/L/-R R9010S dim. 600-24 constructed from galvanised steel paint in white RAL 9010 (60-70% gloss) and black aluminium vanes. Circular plenum box with a lateral connection 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	m ³ /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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