

- Slot diffusers
- Aluminium
- White, RAL 9016



## Linear drum slot diffusers type ASR

Linear slot diffusers with adjustable drum deflector

### Brand

- Cairox

### Application

- For air supply or exhaust in ventilation and air conditioning systems.

### Material

- Aluminium

### Colour

- Anodized extruded aluminium, deflector RAL 9005 black polypropylene
- Standard colour white, RAL 9016, deflector standard colour black polypropylene RAL 9005
- Other colours available upon request

### Mounting

- Ceiling mounted

### Accessories

- Non-insulated plenum box, type **PR-ASR**
- 2-sides insulated plenum box, type **PRI-ASR**
- Connection piece, type **ASR-CON** for in-line mounting

### Order example

- **ASR-2 RAL9016, 1500 + PR-ASR 2 1500 + ASR-CON**

Explanation

**ASR RAL9016** = Diffuser type in white finish

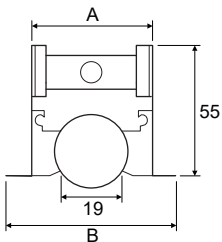
**2** = Slot quantity

**1500** = Length of diffuser

Accessories (optional)

**PR-ASR 2 1500** = Not-insulated plenum box for diffuser of 2 slots with a length of 1500mm

**ASR-CON** = Connection piece to mount several diffusers in line



Dimensions				
	L [mm]	ØD [mm]	A [mm]	B [mm]
ASR 1	800	1 x 100	39	56
	1000	1 x 100		
	1500	2 x 100		
	2000	3 x 100		
ASR 2	800	1 x 150	77	94
	1000	2 x 150		
	1500	3 x 150		
	2000	4 x 150		
ASR 3	800	1 x 200	115	132
	1000	2 x 200		
	1500	3 x 200		
	2000	4 x 200		
ASR 4	800	2 x 200	153	170
	1000	2 x 200		
	1500	3 x 200		
	2000	4 x 200		

Quick selection													
ASR L - #SLOTS	800 - 1	1000 - 1	1500 - 1	800 - 2	2000 - 1 1000 - 2	800 - 3	1500 - 2 1000 - 3	800 - 4	2000 - 2 1000 - 4	1500 - 3	2000 - 3 1500 - 4	2000 - 4	
Q	Ak	0.00496	0.0062	0.0093	0.00992	0.01488	0.0186	0.01984	0.0248	0.0279	0.0372	0.0496	
50	Vk	2.8	2.2	1.5									
	X0,25	3.2	2.8	2.2									
	Ps	9	6	3									
	Lw(A)	<20	<20	<20									
100	Vk		4.5	3	2.8	2.2	1.9	1.5					
	X0,25		5.5	4.3	4.2	3.6	3.2	2.8					
	Ps		24	12	11	7	5	4					
	Lw(A)		33	24	23	<20	<20	<20					
150	Vk			4.5	4.2	3.4	2.8	2.2	2.1	1.7	1.5		
	X0,25			6.5	6.2	5.4	4.9	4.2	4.1	3.5	3.3		
	Ps			27	24	17	12	8	7	5	4		
	Lw(A)			35	34	30	26	21	<20	<20	<20		
200	Vk				4.5	3.7	3	2.8	2.2	2	1.5		
	X0,25				7.2	6.5	5.6	5.4	4.7	4.4	3.7		
	Ps				30	22	15	13	9	7	4		
	Lw(A)				37	34	29	28	23	20	<20		
250	Vk					4.7	3.7	3.5	2.8	2.5	1.9		
	X0,25					8.1	7	6.8	5.9	5.5	4.6		
	Ps					34	23	21	14	11	7		
	Lw(A)					40	35	34	29	27	21		
300	Vk						4.5	4.2	3.4	3	2.2	1.7	
	X0,25						8.5	8.1	7.1	6.6	5.5	4.6	
	Ps						33	30	20	16	10	6	
	Lw(A)						40	39	34	31	26	<20	
350	Vk							4.9	3.9	3.5	2.6	2	
	X0,25							9.5	8.3	7.7	6.4	5.4	
	Ps							40	27	22	14	8	
	Lw(A)							43	38	36	30	24	
400	Vk								4.5	4	3	2.2	
	X0,25								9.4	8.8	7.4	6.2	
	Ps								36	29	18	11	
	Lw(A)								42	39	33	27	
500	Vk									5	3.7	2.8	
	X0,25									11	9.2	7.7	
	Ps									46	28	17	
	Lw(A)									45	39	33	
600	Vk										4.5	3.4	
	X0,25										11	9.2	
	Ps										40	24	
	Lw(A)										44	38	

### Symbols and specifications

- Q = Air Volume in m<sup>3</sup>/h
  - Ak = Effective surface (free area) in m<sup>2</sup>
  - Vk = Average effective velocity through the grill in m/s
  - X0.25 = Throw length in m at an endvelocity Vt of 0,25m/s
  - Ps = Static pressure loss given in Pa
  - Lw(A) = Acoustic power in dB(A)
- The horizontal throw X0.25 is given at an end velocity of 0.25m/s with all deflectors positioned for a maximal horizontal one-way throw installed in smooth ceiling without any obstacles.
  - The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by deviding the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
  - The pressure losses Ps are given for grilles without damper.
  - The acoustic power Lw(A) are given for grilles without damper without room attenuation. Acoustic powers below 20dB (A) are mentioned as "<20" in the tables.
  - For all special requirements, please contact our engineering office.

## Placement instruction

