

Circular diffuser

AR



Specifications

Circular diffuser with concentric fixed diffusion rings. Inner core can be detached.

Used for mainly for supply, but can be used also for exhaust or recirculation, in ventilation systems.

Material

Steel.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)

Mounting / Fixing

Mounting on ceiling (inside).
Standard delivery is without mounting holes in frame.

Fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Butterfly damper - **DF** (extra cost).
Plenum box - **PC** (extra cost).
Fixing systems.

Order code:

AR

ddd

+

*

Product code

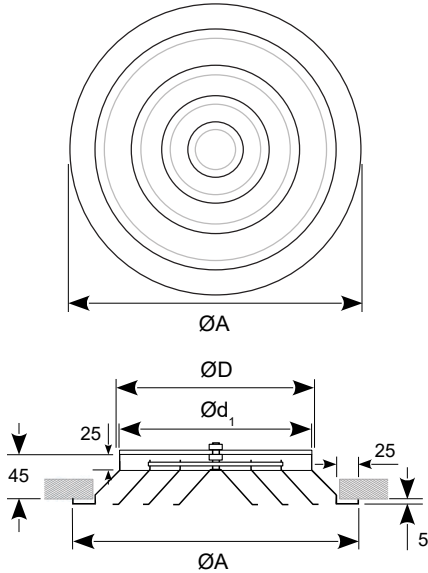
diameter ØD (mm)

not specified - white RAL9003 (standard)

RALxxxx - optional RAL code

* optional accessories

Technical data



ØD - circular connection diameter
ØA - external diameter
Opening hole size: external diameter - 50 mm

Standard sizes

ØD	Ød ₁	ØA	Q (m³/h) @ Vef 3,5 (m/s)
150	147	250	130
160	157	250	135
200	197	300	290
250	247	350	450
300	297	400	640
315	313	400	650
350	347	455	870
400	397	505	130
450	447	555	130
500	497	605	130

There are no other sizes available.

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Technical data

Q (m³/h)	Ød (mm)	150 160	200	250	300 315	350	400	450	500
	A _{ef} (m²)	0,009	0,016	0,025	0,035	0,048	0,063	0,079	0,098
100	Lt(m)	0,9							
	Lw(dB(A))	10							
	ΔPt(Pa)	7							
150	Lt(m)	1,3	1,2						
	Lw(dB(A))	19	<5						
	ΔPt(Pa)	13	4						
200	Lt(m)	1,8	1,4						
	Lw(dB(A))	33	10						
	ΔPt(Pa)	18	6						
300	Lt(m)	2,5	2,0	1,4					
	Lw(dB(A))	43	20	<5					
	ΔPt(Pa)	30	12	3					
400	Lt(m)		2,6	1,8					
	Lw(dB(A))		36	10					
	ΔPt(Pa)		19	5					
500	Lt(m)		3,0	2,4	2				
	Lw(dB(A))		45	22	7				
	ΔPt(Pa)		33	9	6				
750	Lt(m)			3,3	2,8	2,7			
	Lw(dB(A))			38	26	10			
	ΔPt(Pa)			24	12	5			
1000	Lt(m)			4,3	3,9	3,1	3,0		
	Lw(dB(A))			44	33	24	<5		
	ΔPt(Pa)			38	18	9	3		
1500	Lt(m)				5	4,5	4,0	3,8	
	Lw(dB(A))				44	38	12	20	
	ΔPt(Pa)				38	24	6	7	
2000	Lt(m)					5,0	4,8	4,5	4,2
	Lw(dB(A))					44	24	28	24
	ΔPt(Pa)					38	9	12	9
2500	Lt(m)						6,0	5,8	5,3
	Lw(dB(A))						30	35	30
	ΔPt(Pa)						14	19	14
3000	Lt(m)						7,0	6,7	6,2
	Lw(dB(A))						34	40	35
	ΔPt(Pa)						18	25	19
3500	Lt(m)							7,2	6,9
	Lw(dB(A))							46	37
	ΔPt(Pa)							38	22
4000	Lt(m)								8,1
	Lw(dB(A))								40
	ΔPt(Pa)								26
5000	Lt(m)								9,0
	Lw(dB(A))								48
	ΔPt(Pa)								43

Data is valid for:

- H ceiling =3,0±0,5m
- Lt (m) @ Vi=0,25 m/s (with Coanda effect)
- Lw(db(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K

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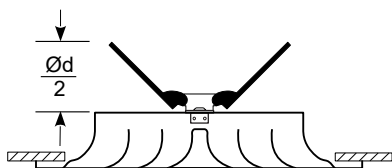
Fixing



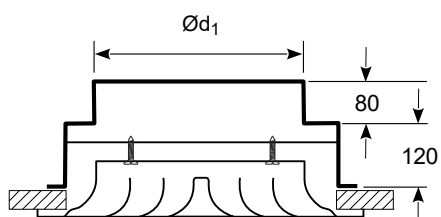
Standard delivery is without mounting holes in frame.
Inner core can be detached (screw system).

Fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories



Butterfly damper - **DF**



Plenum box- **PC**