

Double deflection grille for circular ducts

DD-S



Specifications

Grille with two rows of vertical and horizontal blades, individually adjustable.
Specially designed for mounting on circular ducts.

Used for exhaust, supply or recirculation, in ventilation systems.

Material

Galvanised steel frame.
Aluminium blades.

Finish

Standard finish: galvanised steel / natural aluminium.

Mounting / Fixing

Mounting on circular ducts.
Fixing with visible screws (countersunk hole in frame).

Optional accessories

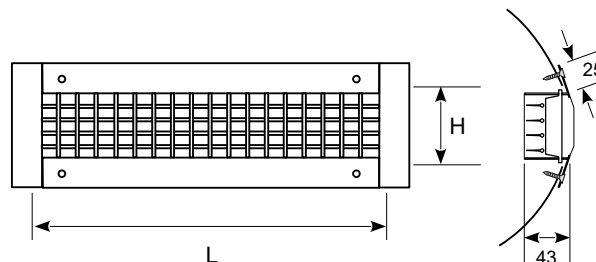
Sliding damper - **DGS** (extra cost)
Opposed blade damper - **OBD** (extra cost).

Order code: DD-S aaa x bbb + *

Product code _____
duct opening length L (mm) _____
duct opening height H (mm) _____

* optional accessories

Technical data



LxH - opening hole size according to codification
Grille neck size: (L-15) x (H-15)

Standard sizes

LxH	Ød duct min.-max.	Q (m³/h) @ V _{eff} = 3.5 (m/s)
225x75	160-315	100
325x75	160-315	150
425x75	160-315	200
525x75	160-315	240
625x75	160-315	290
825x75	160-315	390
325x125	315-500	260
425x125	315-500	350
525x125	315-500	440
625x125	315-500	530
825x125	315-500	700
1025x125	315-500	880
1225x125	315-500	1100
425x175	400-710	480
525x175	400-710	600
625x175	400-710	730
825x175	400-710	970
1025x175	400-710	1200
1225x175	400-710	1450
625x225	500-900	1030
825x225	500-900	1370
1025x225	500-900	1710
1225x225	500-900	2050

There are no other sizes available.

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Selection table

Q (m³/h)	LxH (mm) A _{ef} (m²)	225x75	325x75	425x75	525x75	625x75	825x75	325x125	425x125	525x125	625x125	825x125	1025x125	1225x125	425x175	525x175	625x175	825x175	1025x175	1225x175	625x225	825x225	1025x225	1225x225
		0,008	0,011	0,015	0,018	0,023	0,030	0,021	0,027	0,034	0,041	0,056	0,069	0,084	0,038	0,047	0,058	0,077	0,095	0,116	0,082	0,108	0,136	0,164
100	Lt(m) Lw(dB(A)) ΔPt(Pa)	4.2 18 4																						
150	Lt(m) Lw(dB(A)) ΔPt(Pa)	6.5 27 8	4.8 18 3	4.1 16 3																				
200	Lt(m) Lw(dB(A)) ΔPt(Pa)		6.6 25 6	6.2 24 4	6.1 21 4																			
250	Lt(m) Lw(dB(A)) ΔPt(Pa)		8.6 31 10	7.6 30 10	7.2 27 6																			
300	Lt(m) Lw(dB(A)) ΔPt(Pa)			11.6 35 14	8.9 31 9	7.8 24 4		8.0 25 5																
400	Lt(m) Lw(dB(A)) ΔPt(Pa)				12.6 36 14	9.6 31 8	9.1 27 6	9.8 32 9	9.5 29 8	6.5 23 4														
500	Lt(m) Lw(dB(A)) ΔPt(Pa)					13.6 35 10	12.6 32 8	13.8 36 11	12.8 33 9	8.0 30 7	7.6 27 6				7.7 28 7									
600	Lt(m) Lw(dB(A)) ΔPt(Pa)					16.4 39 15	14.6 37 13	16.7 40 16	14.8 38 15	11.0 34 9	9.5 32 8	7.6 26 4			9.6 33 8	8.2 29 6	7.5 25 4							
800	Lt(m) Lw(dB(A)) ΔPt(Pa)						17.4 43 17			13.5 41 14	12.8 32 12	9.8 29 7	7.8 25 4	7.5 23 4	13.0 33 13	10.8 30 10	9.7 28 6	7.7 25 5			7.5 23 4			
1000	Lt(m) Lw(dB(A)) ΔPt(Pa)									15.0 44 19	12.8 37 10	12.0 33 8	10.0 30 6	10.0 30 6	15.2 45 20	13.5 39 14	12.6 36 9	11.0 32 7	9.5 27 4	8.5 23 4	10.0 30 6	9.0 25 5		
1200	Lt(m) Lw(dB(A)) ΔPt(Pa)											16.5 45 18	14.5 38 11	12.5 33 8		17.2 48 20	16.2 42 17	13.0 35 10	12.0 32 7	11.6 28 6	12.5 33 8	11.8 30 7	9.2 23 5	
1500	Lt(m) Lw(dB(A)) ΔPt(Pa)												16.0 42 12	14.7 39 10				16.8 47 19	14.8 37 8	13.0 34 7	14.7 39 10	14.0 35 8	12.0 30 6	9.8 28 5
1800	Lt(m) Lw(dB(A)) ΔPt(Pa)																		16.8 45 17	15.0 37 9		15.9 40 11	14.0 33 7	13.0 30 6
2000	Lt(m) Lw(dB(A)) ΔPt(Pa)																						15.5 36 9	14.0 32 7
2500	Lt(m) Lw(dB(A)) ΔPt(Pa)																							16.0 37 10
3000	Lt(m) Lw(dB(A)) ΔPt(Pa)																							18.7 45 18

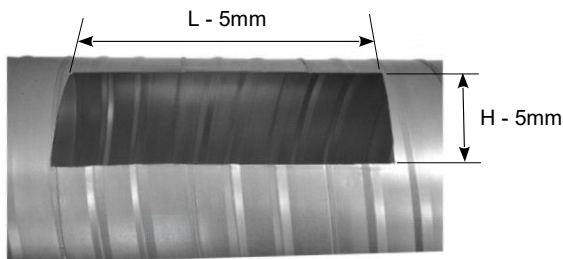
Data is valid for:

- deflection 0°, without damper
- L_w(dB(A)) without room attenuation
- Temperature difference Dt=0K

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Mounting / Fixing

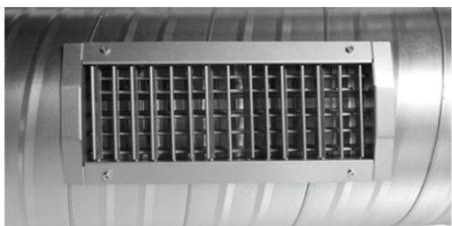


1. Cut the opening in circular duct

(example: for grille 525x125 cut hole 520x120)

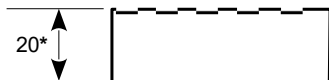


2. Deburr the sharp edges and insert the grille in opening.



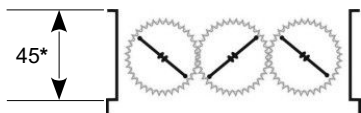
3. Fix the grille with adequate screws.
(steel self drilling screws)

Optional accessories



DGS - Sliding damper (extra cost).
(not available for all sizes - see DGS datasheet)

*to be added to grille height



OBD - Opposed blade damper (extra cost).

*to be added to grille height