

DSK-P Diffuser for supply air

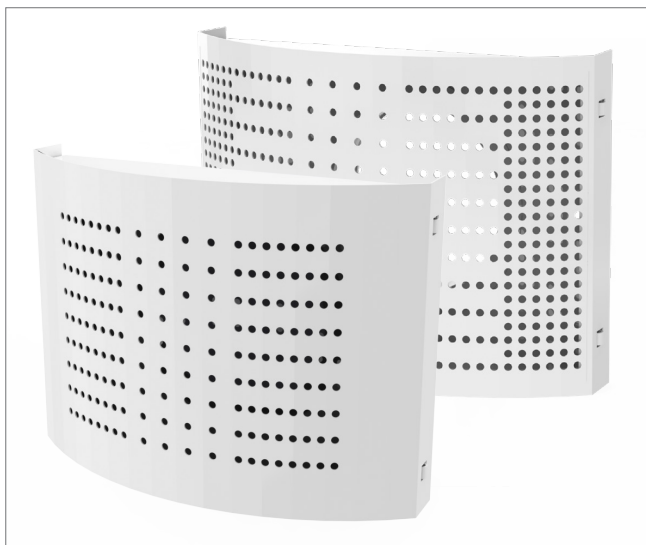
Wall-mounted diffuser for supply air. Product is designed for use in residential houses and other premises where airflows are low and air distribution is from the wall.

DSK-P 100 and DSK-P 125 diffusers fulfill Finnish building code E7:2004 and Ministry of Environment type approval regulations (2008) for smoke throttling element, when installed on the wall or on the end of a horizontal duct.

Features:

- Low noise level
- Draftless air supply
- Easy installation
- Removable front plate

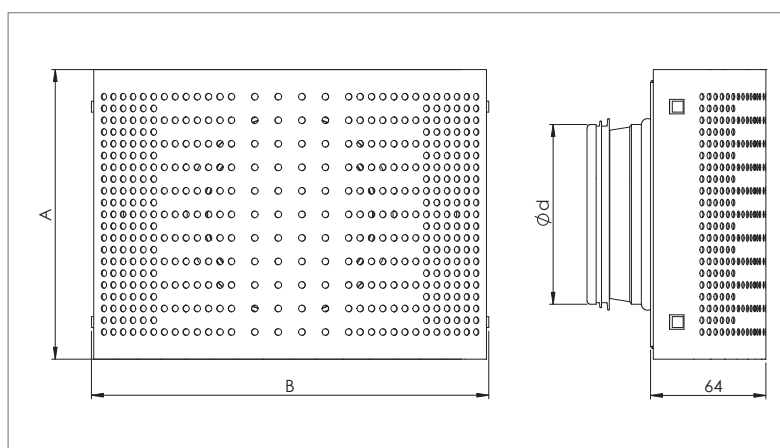
Suitable for houses, offices and other rooms with low air quantities with supply air on the wall.



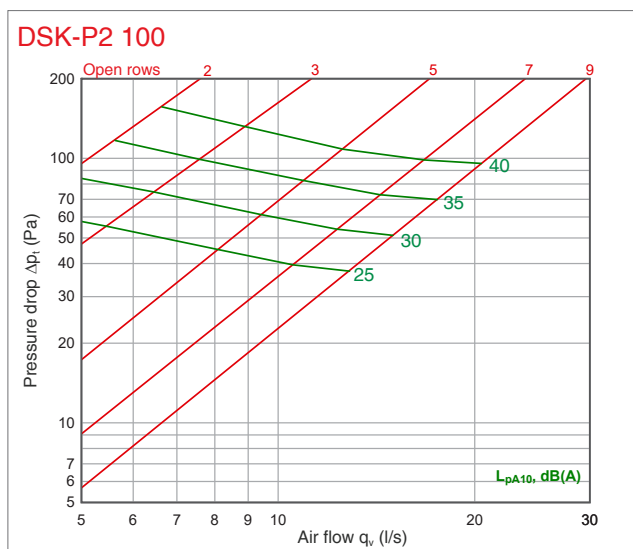
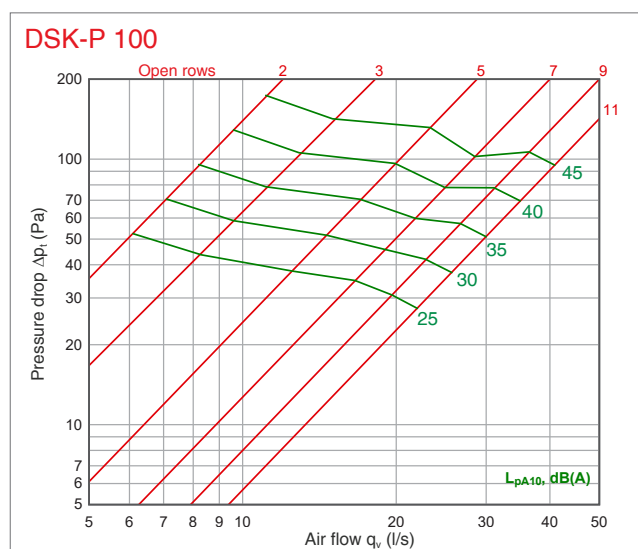
Structure and dimensions

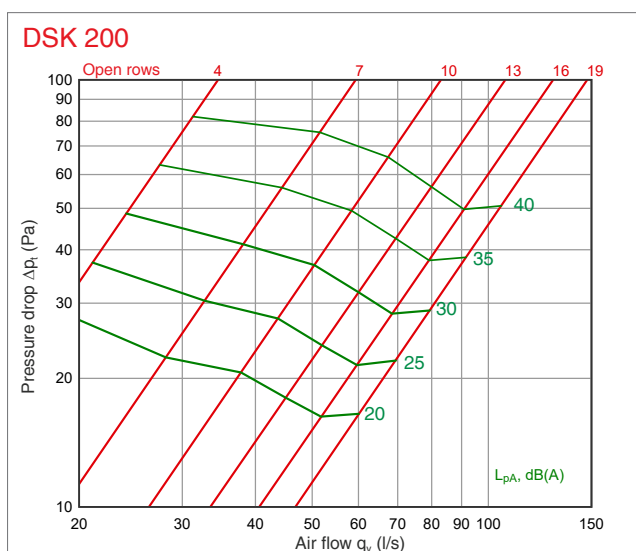
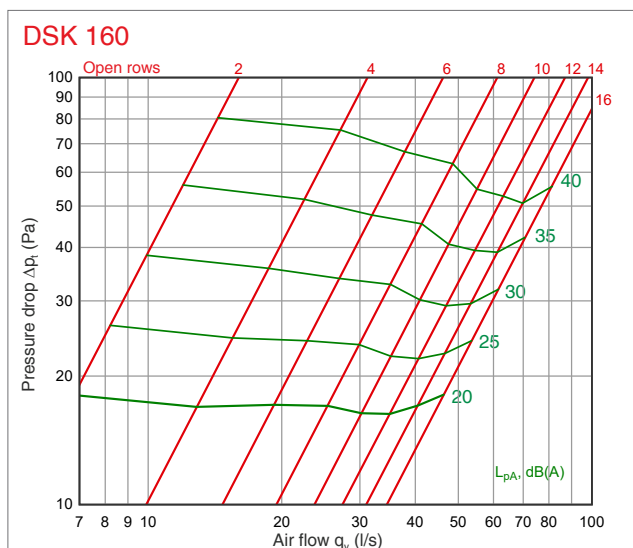
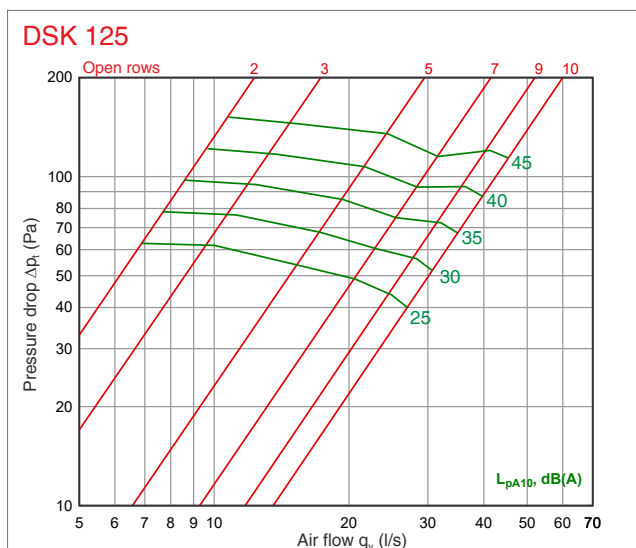
DSK-diffuser be composed of two parts: the main body and the front panel. Both details are manufactured of galvanized steel and coated white (RAL 9010). Duct connection is equipped with circular rubber gasket.

Product Ød	B mm	A mm	Weight, kg
DSK-P 100	217	160	0,7
DSK-P2 100	217	160	0,7
DSK-P 125	217	160	0,7
DSK 160	350	235	1,4
DSK 200	400	275	1,7

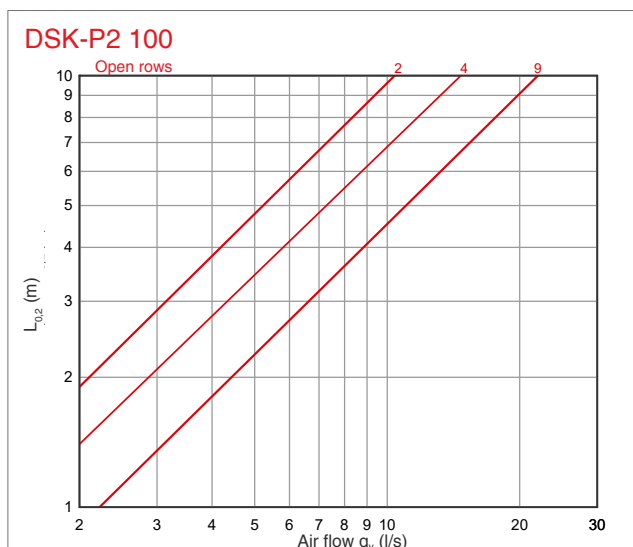
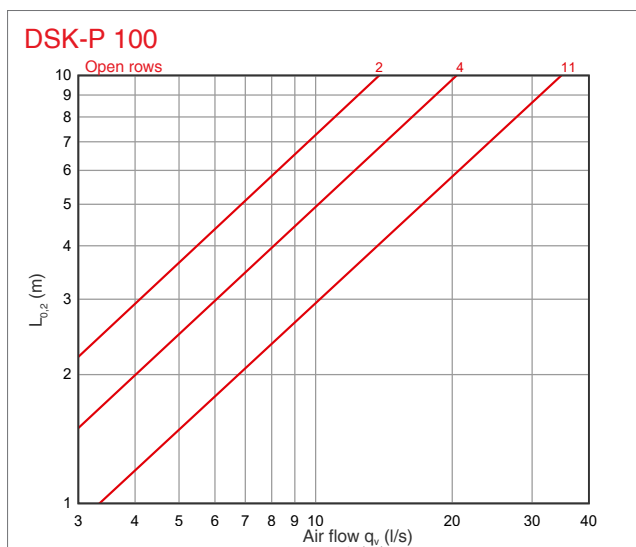


Technical data

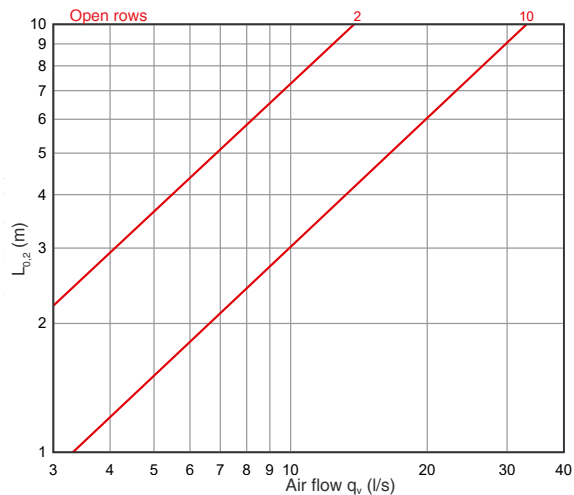




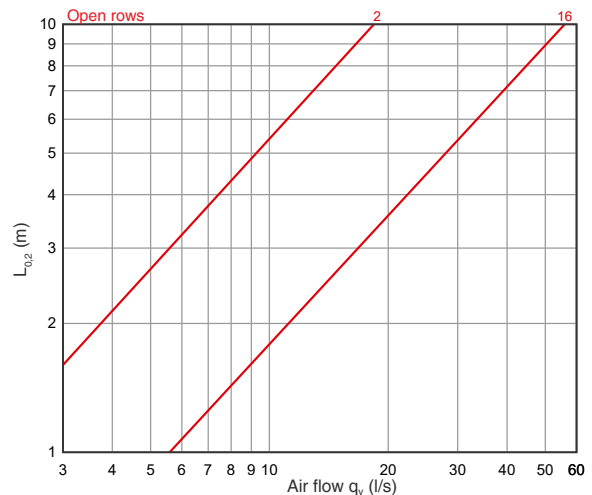
Throw



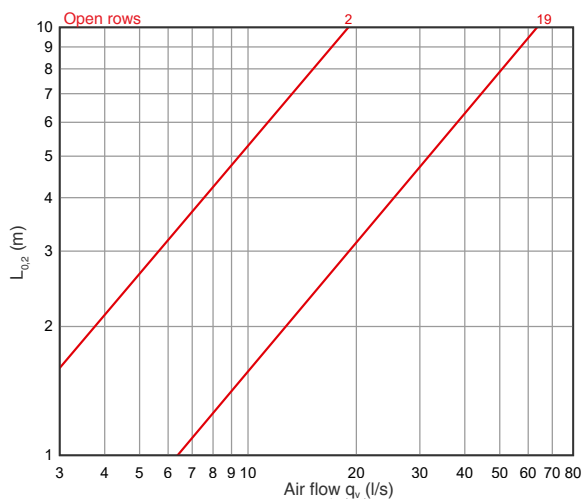
DSK-P 125



DSK 160



DSK 200



10

Acoustic data

DSK-P 100, mean octave sound power level: $L_{w_{okt}} = L_{pA} + K$

Adjust- ment	Correction for octave band K_{okt} (dB)						
	125	250	500	1k	2k	4k	8k
11	-2	-2	0	0	-3	-15	-19
9	0	-1	1	0	-4	-14	-18
7	-2	-1	1	0	-3	-14	-18
5	0	0	0	0	-2	-11	-18
3	-2	0	0	-1	-1	-9	-17
2	-3	-5	-5	-1	-1	-5	-14

Adjust- ment	Sound attenuation (dB)						
	125	250	500	1k	2k	4k	8k
11	16,5	9,5	4,5	0,5	1,5	2	4
7	16,5	9,5	4	1,5	3,5	4	6
3	16,5	9	4	6,5	8	6,5	9

DSK-P2 100, $L_{w_{okt}} = L_{pA} + K$

Adjust- ment	Correction for octave band K_{okt} (dB)						
	125	250	500	1k	2k	4k	8k
9	-2	-3	0	0	-4	-14	-17
7	-1	-1	0	0	-4	-14	-18
5	1	0	1	1	-3	-12	-17
3	0	-2	0	0	-1	-10	-17
2	-4	-4	-6	-2	0	-6	-15

Adjust- ment	Sound attenuation (dB)						
	125	250	500	1k	2k	4k	8k
7	16,5	9,5	4	1,5	3,5	4	6
3	16,5	9	4	6,5	8	6,5	9

DSK-P 125, mean octave sound power level: $L_{w_{okt}} = L_{pA} + K$

Adjust- ment	Correction for octave band K_{okt} (dB)						
	125	250	500	Hz 1k	2k	4k	8k
10	-1	-2	0	-1	-2	-12	-18
9	-2	-2	-1	-1	-1	-11	-18
7	-1	-3	-2	-2	0	-10	-18
5	-1	-2	-2	-2	0	-9	-17
3	-3	-7	-5	-3	0	-7	-16
2	-5	-8	-5	-3	0	-7	-16

Adjust- ment	Sound attenuation (dB)						
	Mean frequency of octave band (Hz)						
10	13,5	8	3,5	0	1	2	4
7	13,5	8	4	0,5	2,5	4,5	6
3	15	9	5	6	6,5	8	9,5

DSK 160, mean octave sound power level: $L_{w_{okt}} = L_{pA} + K$

Adjust- ment	Correction for octave band K_{okt} (dB)						
	125	250	500	Hz 1k	2k	4k	8k
16	-8	-8	-6	-3	-7	-17	-27
14	-8	-8	-6	-3	-7	-17	-26
12	-8	-7	-6	-2	-7	-17	-26
10	-8	-8	-5	-3	-8	-16	-24
8	-6	-8	-6	-3	-7	-16	-23
6	-9	-9	-6	-3	-7	-15	-23
4	-11	-10	-8	-3	-6	-14	-22
2	-16	-15	-9	-2	-7	-12	-21

Adjust- ment	Sound attenuation (dB)						
	Mean frequency of octave band (Hz)						
16	11,5	6	2,5	0,5	1	1,5	3
8	12	6	3	5	3,5	4	5,5
2	13,5	7,5	6,5	9	7	8,5	11

DSK 200, mean octave sound power level: $L_{w_{okt}} = L_{pA} + K$

Adjust- ment	Correction for octave band K_{okt} (dB)						
	125	250	500	Hz 1k	2k	4k	8k
19	-6	-7	-5	-3	-8	-18	-28
16	-6	-8	-5	-2	-8	-18	-27
13	-6	-7	-5	-3	-7	-17	-26
10	-5	-7	-6	-3	-6	-15	-25
7	-5	-7	-6	-4	-6	-14	-22
4	-9	-10	-8	-5	-5	-11	-21

Adjust- ment	Sound attenuation (dB)						
	Mean frequency of octave band (Hz)						
19	9	5,5	2	0	0,5	1	3
10	9	6	2,5	3	2,5	3	5
4	9	7	5,5	4,5	4,5	7	9

Product codes

DSK-P	Ød	RAL 7000
Product	Diameter	RAL colour

Example: DSK-P 125

Other materials:

H - acid-proof steel (standards EVS-EN 10088-2:2014, EN 1.4436 or AISI 316)

RAL colour: if other than standard colour (RAL 9010, white)

Installation

Installed directly to duct and fixed to wall with screws or with rivets to duct. Front plate simply pressed in tight against the body.

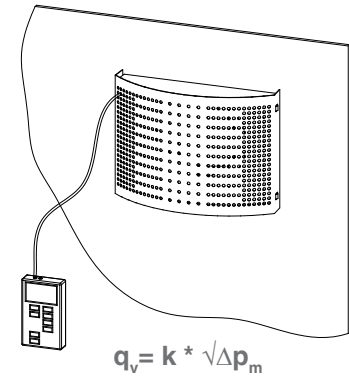
Measurement and regulation of air flow

Measurement of air flow as pressure differential measured through a hole in the front plate.
Regulation by closing or opening nozzles.

K-factor

A - position, opened rows

A	11	9	7	5	3	2		
DSK-P 100	5,34	4,32	3,12	2,15	1,30	0,87		
A	9	7	5	3	2			
DSK-P2 100	2,16	1,56	1,08	0,65	0,49			
A	10	9	7	5	3	2		
DSK-P 125	4,68	3,95	3,08	2,16	1,30	0,89		
A	16	14	12	10	8	6	4	2
DSK 160	13,58	11,59	9,85	8,13	6,54	4,76	3,17	1,59
A	19	16	13	10	7	4		
DSK 200	17,47	14,95	11,72	8,92	6,09	3,47		



$$q_v = k \cdot \sqrt{\Delta p_m}$$