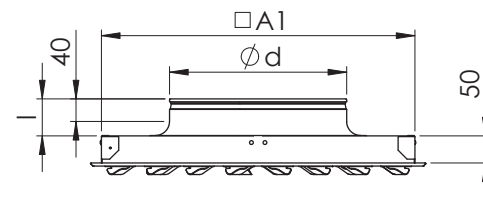
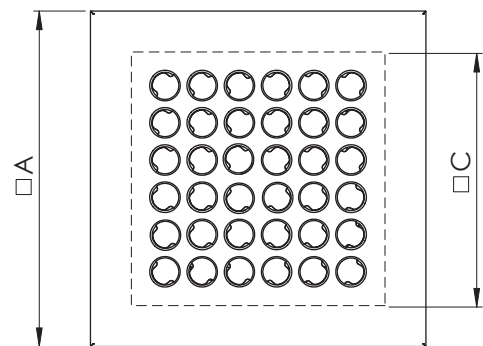
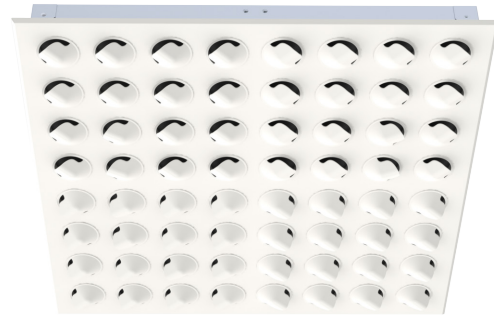


DKZ Nozzle diffuser

DKZ is a rectangular nozzle diffuser, which is designed to provide effective supply air distribution, while also avoiding draft in the occupied zone. Diffusers front plate is easily removable, making the cleaning process more comfortable and less time consuming.

DKZ is suitable for using in rooms with or without suspended ceiling.

- Nozzles can be rotated by 360°
- Suitable for rooms with false ceiling
- Suitable for CAV and VAV systems
- High mixing ratio
- Can be used for heating, cooling and isothermal supply air
- Multiple air distribution patterns:
 - horizontal
 - vertical
- Easy access front panel
- Easy to clean
- Can be installed straight to the duct or used together with a SKDM plenum box
- Duct sizes Ø125-400 mm

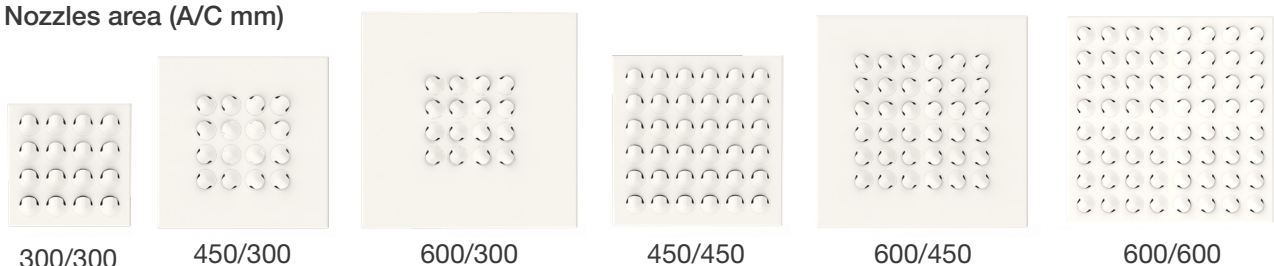


Material and surface treatment

Nozzle diffuser DKZ is manufactured from galvanized steel and the nozzles are from ABS. The front plate and nozzles have a white (RAL 9003), grey (RAL 9006) or black (RAL 9005) finish by standard, but are also available in any other RAL colours.

| Nominal size d-A mm | A | A1 | l | C | Nozzles, pc | Weight, kg |
|------------------------|-----|-----|----|-----|----------------|---------------|
| 125-300 | 300 | 260 | 60 | 300 | 16 | 1,5 |
| 125-450 | 450 | 410 | 60 | 300 | 16 | 2,9 |
| 125-600 | 595 | 560 | 60 | 300 | 16 | 4,8 |
| 160-300 | 300 | 260 | 65 | 300 | 16 | 1,5 |
| 160-450 | 450 | 410 | 65 | 300 | 16 | 2,9 |
| 160-600 | 595 | 560 | 65 | 300 | 16 | 4,8 |
| 200-450 | 450 | 410 | 65 | 450 | 36 | 2,8 |
| 200-600 | 595 | 560 | 65 | 450 | 36 | 4,8 |
| 250-600 | 595 | 560 | 65 | 600 | 64 | 4,7 |
| 315-600 | 595 | 560 | 65 | 600 | 64 | 4,6 |
| 400-600 | 595 | 560 | 65 | 600 | 81 | 4,8 |

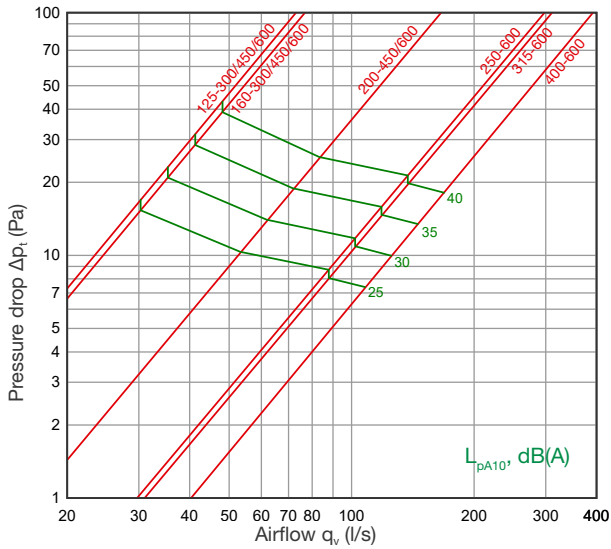
Nozzles area (A/C mm)



Technical data

Diffuser without plenum box

DKZ

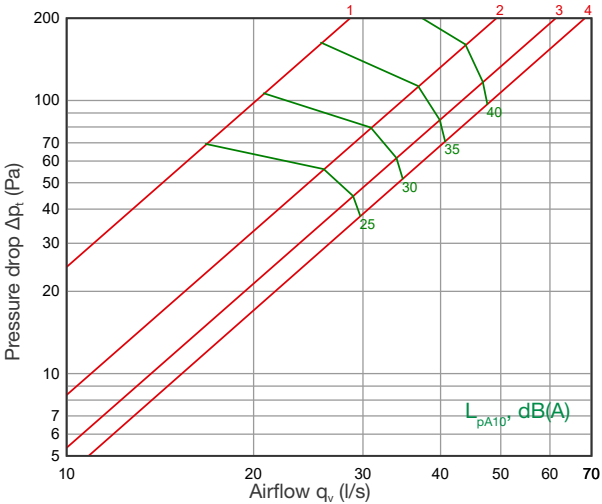


| Sound level correction factor K_{okt} (dB) | | | | | | | | |
|--|----|-----|-----|-----|----|-----|-----|-----|
| Tuote | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| DKZ125 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 160 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 200 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 250 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 315 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 400 | -9 | -6 | -4 | -1 | -3 | -16 | -25 | -34 |

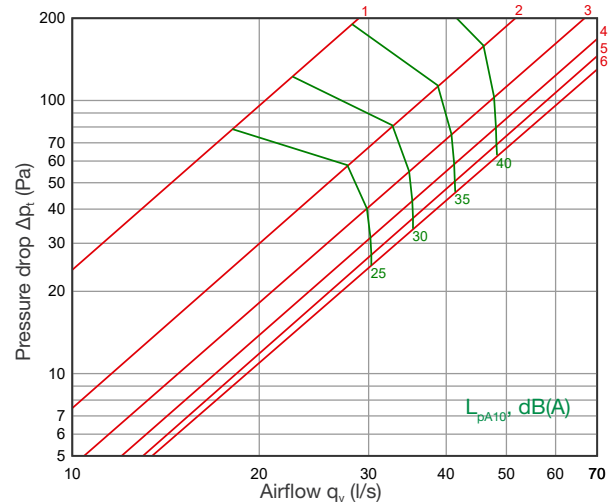
| Sound attenuation (dB) | | | | | | | | |
|------------------------------------|----|-----|-----|-----|----|----|----|----|
| Mean frequency of octave band (Hz) | | | | | | | | |
| Tuote | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| DKZ125 | 21 | 15 | 8 | 8 | 3 | 4 | 5 | 6 |
| DKZ 160 | 20 | 14 | 7 | 8 | 2 | 4 | 5 | 6 |
| DKZ 200 | 20 | 11 | 6 | 3 | 2 | 3 | 4 | 6 |
| DKZ 250 | 18 | 10 | 4 | 3 | 2 | 4 | 4 | 6 |
| DKZ 315 | 15 | 9 | 4 | 2 | 2 | 4 | 6 | 8 |
| DKZ 400 | 15 | 9 | 5 | 2 | 2 | 3 | 6 | 9 |

Diffuser with plenum box

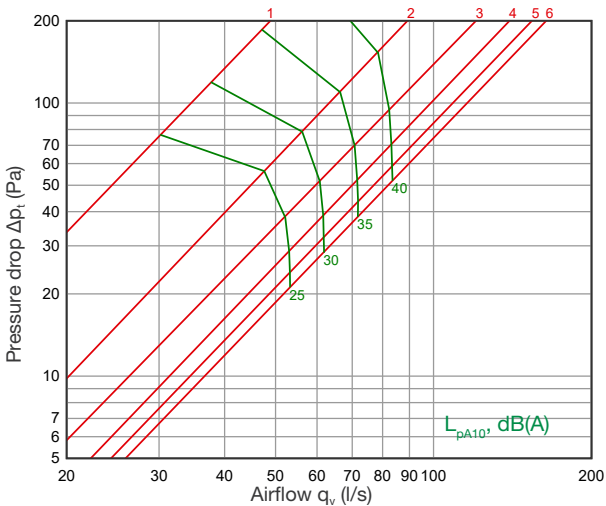
DKZ 125-300/450/600 + SKDM 100/125



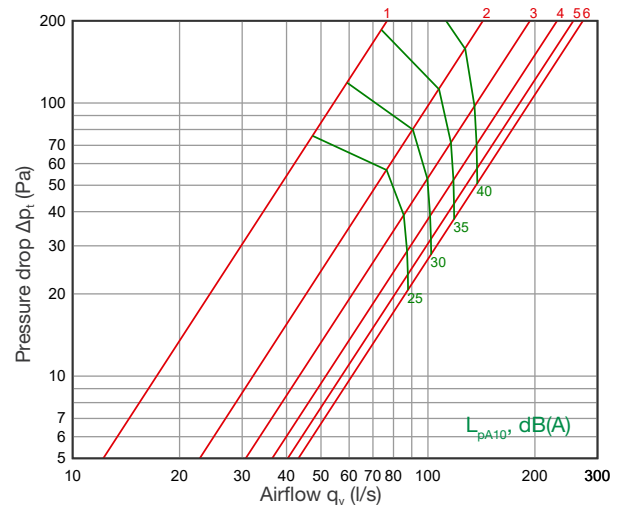
DKZ 160-300/450/600 + SKDM 125/160



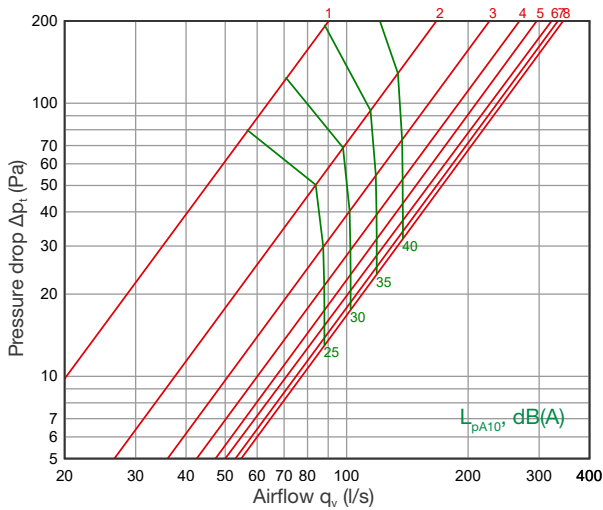
DKZ 200-450/600 + SKDM 160/200



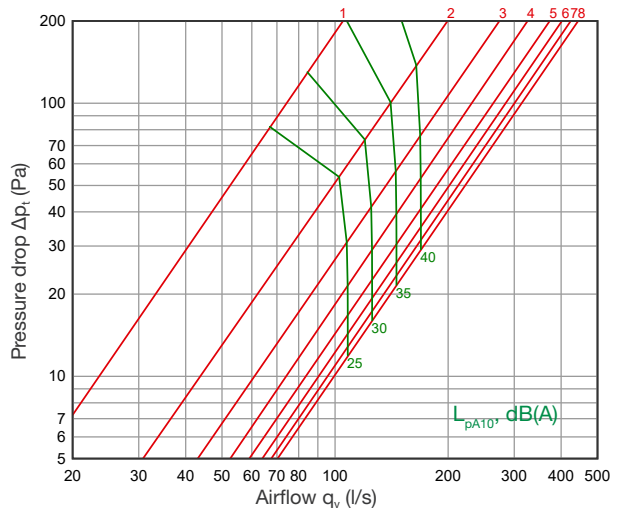
DKZ 250-600 + SKDM 200/250



DKZ 315-600 + SKDM 250/315



DKZ 400-600 + SKDM 315/400



Acoustic data, $L_w = L_{p10A} + K_{okt}$

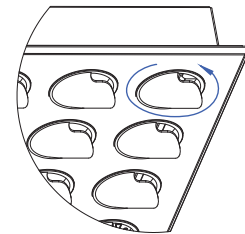
| Product | Position | K-factor | Sound level correction factor K_{okt} (dB) | | | | | | | |
|---------------------------|----------|----------|--|-----|-----|-----|----|-----|-----|-----|
| | | | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| DKZ 125 + SKDM 100/125 | s = 1 | 2,1 | 0 | 0 | 0 | -2 | -5 | -10 | -13 | -18 |
| | s = 2 | 3,8 | 1 | 1 | 0 | -1 | -4 | -13 | -17 | -22 |
| | s = 3 | 5,2 | 0 | 1 | -1 | -1 | -4 | -15 | -22 | -28 |
| | s = 4 | 6,3 | -1 | 0 | -2 | -1 | -3 | -16 | -24 | -31 |
| DKZ 160 + SKDM 125/160 | s = 1 | 2,2 | -2 | -2 | -1 | -2 | -5 | -10 | -12 | -17 |
| | s = 2 | 4,1 | -3 | -2 | -2 | -1 | -4 | -13 | -18 | -23 |
| | s = 3 | 5,8 | -6 | -4 | -3 | -1 | -3 | -15 | -23 | -29 |
| | s = 4 | 7,3 | -7 | -5 | -4 | -1 | -3 | -16 | -24 | -32 |
| | s = 5 | 8,5 | -7 | -5 | -4 | -1 | -3 | -16 | -25 | -33 |
| | s = 6 | 9,6 | -8 | -5 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 200 + SKDM 160/200 | s = 1 | 3,6 | 3 | 1 | -1 | -2 | -5 | -10 | -12 | -17 |
| | s = 2 | 6,8 | 2 | 1 | -2 | -1 | -4 | -13 | -17 | -23 |
| | s = 3 | 9,6 | -1 | -1 | -3 | -1 | -3 | -15 | -22 | -29 |
| | s = 4 | 12,1 | -2 | -2 | -4 | -1 | -3 | -16 | -24 | -32 |
| | s = 5 | 14,2 | -2 | -2 | -4 | -1 | -3 | -16 | -25 | -33 |
| | s = 6 | 15,9 | -3 | -2 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 250 + SKDM 200/250 | s = 1 | 5,6 | 3 | 1 | -1 | -2 | -5 | -10 | -12 | -17 |
| | s = 2 | 10,7 | 3 | 1 | -1 | -1 | -4 | -13 | -17 | -22 |
| | s = 3 | 15,1 | 0 | 0 | -3 | -1 | -3 | -15 | -22 | -28 |
| | s = 4 | 19,0 | -1 | -1 | -3 | -1 | -3 | -16 | -24 | -32 |
| | s = 5 | 22,2 | -2 | -2 | -4 | -1 | -3 | -16 | -25 | -33 |
| | s = 6 | 24,9 | -2 | -2 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 315 + SKDM 250/315 | s = 1 | 6,6 | 2 | 1 | -1 | -2 | -5 | -10 | -12 | -18 |
| | s = 2 | 12,8 | -1 | -1 | -3 | -1 | -3 | -14 | -20 | -26 |
| | s = 3 | 18,4 | -3 | -2 | -4 | -1 | -3 | -16 | -24 | -32 |
| | s = 4 | 23,5 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -33 |
| | s = 5 | 28,1 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 6 | 32,1 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 7 | 35,7 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 8 | 38,7 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| DKZ 400 + SKDM 315/400 | s = 1 | 7,8 | 2 | 0 | -1 | -2 | -5 | -9 | -12 | -17 |
| | s = 2 | 15,1 | -1 | -2 | -3 | -1 | -3 | -14 | -19 | -25 |
| | s = 3 | 22,0 | -3 | -3 | -4 | -1 | -3 | -16 | -24 | -31 |
| | s = 4 | 28,4 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -33 |
| | s = 5 | 34,5 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 6 | 40,1 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 7 | 45,2 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |
| | s = 8 | 49,9 | -4 | -3 | -4 | -1 | -3 | -16 | -25 | -34 |

| DKZ | Position | Sound attenuation (dB) | | | | | | | |
|------------------------|----------|------------------------------------|-----|-----|-----|----|----|----|----|
| | | Mean frequency of octave band (Hz) | | | | | | | |
| | | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| DKZ 125 + SKDM 100/125 | s = 1 | 20 | 15 | 10 | 17 | 24 | 23 | 22 | 20 |
| | s = 4 | 19 | 13 | 10 | 18 | 21 | 19 | 22 | 17 |
| DKZ 160 + SKDM 125/160 | s = 1 | 17 | 14 | 10 | 15 | 21 | 20 | 20 | 19 |
| | s = 6 | 16 | 13 | 9 | 15 | 19 | 17 | 19 | 17 |
| DKZ 200 + SKDM 160/200 | s = 1 | 15 | 13 | 9 | 12 | 18 | 16 | 18 | 18 |
| | s = 6 | 13 | 13 | 8 | 13 | 17 | 16 | 17 | 18 |
| DKZ 250 + SKDM 200/250 | s = 1 | 12 | 13 | 9 | 10 | 15 | 13 | 16 | 18 |
| | s = 6 | 10 | 13 | 7 | 11 | 14 | 14 | 15 | 18 |
| DKZ 315 + SKDM 250/315 | s = 1 | 10 | 12 | 9 | 8 | 12 | 9 | 14 | 17 |
| | s = 8 | 8 | 13 | 7 | 9 | 12 | 12 | 13 | 18 |
| DKZ 400 + SKDM 315/400 | s = 1 | 8 | 12 | 9 | 6 | 9 | 6 | 12 | 16 |
| | s = 8 | 5 | 14 | 6 | 7 | 10 | 10 | 11 | 19 |

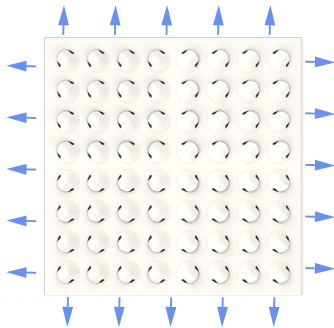
Nozzle settings

The nozzles are located on the front panel of the diffuser, allowing variable options for different Airflow patterns. Depending on rooms characteristics and supply air temperature, the Airflow can be distributed either horizontally or vertically. By facing nozzles to the sides, horizontal Airflow is enabled. By facing nozzles to the center, vertical Airflow is enabled.

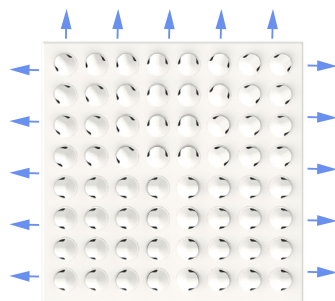
The nozzles are preset on 4-way diffusion.



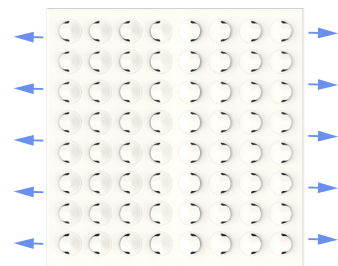
1. 4-way



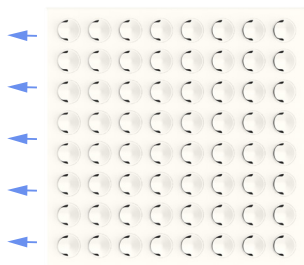
2. 3-way



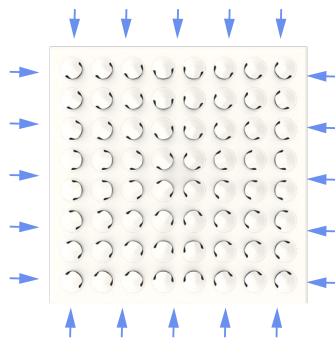
3. 2-way



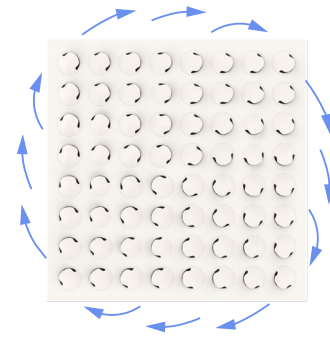
4. 1-way



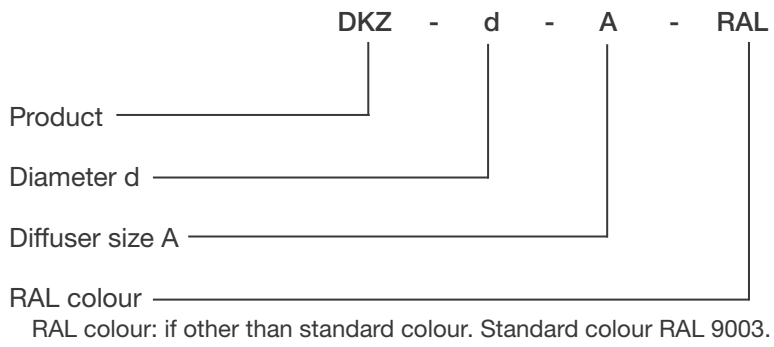
5. Vertical



6. Swirl



Product codes



Example: DKZ 200-600