# EDMP-C Diffusers with adjustable micro nozzles arranged for circular ducts



## Description

Diffusers with adjustable micro-nozzles arranged for circular ducts.
They can be used for air supply when there is the need for long air throws with low noise levels and/or direction of air flow.

## characteristics

Material: Steel plate, white nylon micro-nozzles.
Finish: White RAL 9016.

## Use

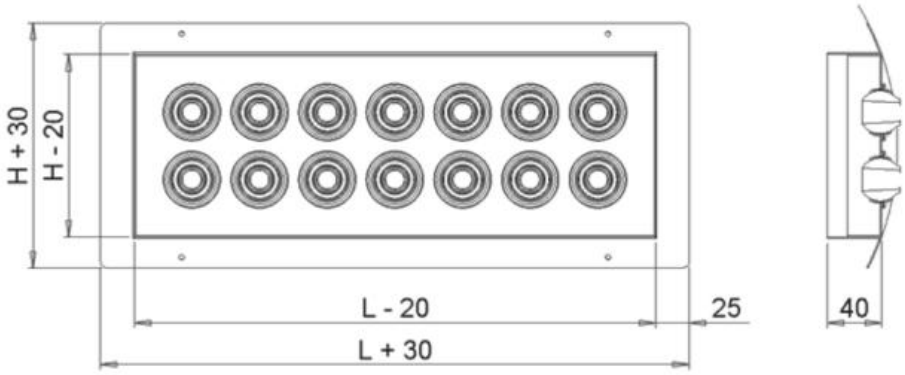
Individually adjustable micro-nozzle diffusers designed to obtain long air throws with low noise levels.

## Fastening

Fastening with front screws on frame.

## On request

Black micro-nozzles.




## Operating data:

Vk: effective speed (m/s)
$m^3/h$: flow rate
Pa: pressure drops in Pascal
L(m): air throw in metres calculated on ceiling installation, terminal velocity 0.25 m/s
dB(A): noise level

| H | Vk | L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 6m/s | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| 100 | No. of micro-nozzles arranged in 1 row | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 19 | 23 |
| | $m^3/h$ | 11 | 18 | 25 | 32 | 39 | 47 | 54 | 68 | 82 |
| | L(m) | 2,0 | 2,3 | 2,7 | 3,0 | 3,5 | 3,9 | 4,0 | 4,5 | 5,0 |
| | dB(A) | <20 | <20 | <20 | 20 | 21 | 21 | 22 | 23 | 24 |
| 150 | No. of micro-nozzles arranged in 2 rows | 6 | 10 | 14 | 18 | 22 | 26 | 30 | 38 | 46 |
| | $m^3/h$ | 22 | 36 | 50 | 65 | 79 | 93 | 108 | 136 | 165 |
| | L(m) | 2,6 | 3,3 | 3,8 | 4,3 | 4,8 | 5,3 | 5,6 | 6,3 | 7,0 |
| | dB(A) | <20 | 20 | 22 | 23 | 23 | 24 | 25 | 26 | 26 |
| 200 | No. of micro-nozzles arranged in 3 rows | 9 | 15 | 21 | 27 | 33 | 39 | 45 | 57 | 69 |
| | $m^3/h$ | 32 | 54 | 75 | 97 | 118 | 140 | 161 | 204 | 247 |
| | L(m) | 2,9 | 3,8 | 4,7 | 5,3 | 5,7 | 6,3 | 7,0 | 7,5 | 8,3 |
| | dB(A) | 20 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 28 |
| 250 | No. of micro-nozzles arranged in 4 rows | - | 20 | 28 | 36 | 44 | 52 | 60 | 76 | 92 |
| | $m^3/h$ | - | 72 | 100 | 129 | 158 | 186 | 215 | 273 | 330 |
| | L(m) | - | 4,5 | 5,5 | 6,5 | 7,0 | 7,6 | 8,2 | 9,0 | 10,1 |
| | dB(A) | - | 23 | 24 | 25 | 26 | 27 | 27 | 28 | 29 |
| 300 | No. of micro-nozzles arranged in 5 rows | - | 25 | 35 | 45 | 55 | 65 | 75 | 95 | 115 |
| | $m^3/h$ | - | 90 | 125 | 161 | 197 | 233 | 269 | 341 | 412 |
| | L(m) | - | 5,3 | 6,5 | 6,8 | 7,6 | 8,3 | 8,8 | 10,0 | 11,0 |
| | dB(A) | - | 24 | 25 | 26 | 27 | 28 | 28 | 29 | 30 |
| **Pressure drop: 18 Pa** | | | | | | | | | | |
| Effective cross-section: 0.0166 $dm^2$ x No. micro-nozzles | | | | | | | | | | |

| H | Vk | L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **8m/s** | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| 100 | No. of micro-nozzles arranged in 1 row | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 19 | 23 |
| | $m^3/h$ | 14 | 24 | 33 | 43 | 53 | 62 | 72 | 91 | 110 |
| | L(m) | 2,7 | 3,3 | 3,7 | 4,0 | 4,7 | 5,0 | 5,5 | 6,3 | 7,0 |
| | dB(A) | 21 | 23 | 25 | 26 | 26 | 27 | 28 | 29 | 29 |
| 150 | No. of micro-nozzles arranged in 2 rows | 6 | 10 | 14 | 18 | 22 | 26 | 30 | 38 | 46 |
| | $m^3/h$ | 29 | 48 | 67 | 86 | 105 | 124 | 143 | 182 | 220 |
| | L(m) | 3,5 | 4,3 | 5,3 | 5,7 | 6,6 | 7,2 | 7,8 | 8,2 | 9,5 |
| | dB(A) | 24 | 26 | 27 | 28 | 29 | 30 | 30 | 31 | 32 |
| 200 | No. of micro-nozzles arranged in 3 rows | 9 | 15 | 21 | 27 | 33 | 39 | 45 | 57 | 69 |
| | $m^3/h$ | 43 | 72 | 100 | 129 | 158 | 186 | 215 | 273 | 330 |
| | L(m) | 4,0 | 5,3 | 6,4 | 6,5 | 7,8 | 8,3 | 9,0 | 10,1 | 11 |
| | dB(A) | 26 | 28 | 29 | 30 | 31 | 31 | 32 | 33 | 34 |
| 250 | No. of micro-nozzles arranged in 4 rows | - | 20 | 28 | 36 | 44 | 52 | 60 | 76 | 92 |
| | $m^3/h$ | - | 96 | 134 | 172 | 210 | 249 | 287 | 363 | 440 |
| | L(m) | - | 6,0 | 7,0 | 8,2 | 9,3 | 10,2 | 11,0 | 11,8 | 13,5 |
| | dB(A) | - | 29 | 30 | 31 | 32 | 33 | 33 | 34 | 35 |
| 300 | No. of micro-nozzles arranged in 5 rows | - | 25 | 35 | 45 | 55 | 65 | 75 | 95 | 115 |
| | $m^3/h$ | - | 120 | 167 | 215 | 263 | 311 | 359 | 454 | 550 |
| | L(m) | - | 7,2 | 8,2 | 9,5 | 10,2 | 11,0 | 11,8 | 13,0 | 15,0 |
| | dB(A) | - | 30 | 31 | 32 | 33 | 33 | 34 | 35 | 36 |
| **Pressure drop: 27 Pa** | | | | | | | | | | |
| Effective cross-section: 0.0166 $dm^2$ x No. micro-nozzles | | | | | | | | | | |

| H | Vk | L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **10m/s** | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| 100 | No. of micro-nozzles arranged in 1 row | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 19 | 23 |
| | $m^3/h$ | 18 | 30 | 42 | 54 | 66 | 78 | 90 | 114 | 137 |
| | L(m) | 3,4 | 4,0 | 4,5 | 5,0 | 5,7 | 6,2 | 7,0 | 7,8 | 9,0 |
| | dB(A) | 26 | 28 | 29 | 30 | 31 | 31 | 32 | 33 | 34 |
| 150 | No. of micro-nozzles arranged in 2 rows | 6 | 10 | 14 | 18 | 22 | 26 | 30 | 38 | 46 |
| | $m^3/h$ | 36 | 60 | 84 | 108 | 131 | 155 | 179 | 227 | 275 |
| | L(m) | 4,4 | 5,4 | 6,8 | 7,2 | 8,3 | 8,5 | 9,2 | 10,3 | 11,5 |
| | dB(A) | 28 | 30 | 32 | 33 | 34 | 34 | 35 | 36 | 37 |
| 200 | No. of micro-nozzles arranged in 3 rows | 9 | 15 | 21 | 27 | 33 | 39 | 45 | 57 | 69 |
| | $m^3/h$ | 54 | 90 | 125 | 161 | 197 | 233 | 269 | 341 | 412 |
| | L(m) | 5,0 | 6,7 | 7,8 | 8,8 | 10,0 | 10,2 | 11,7 | 13,0 | 14,0 |
| | dB(A) | 30 | 32 | 33 | 34 | 35 | 36 | 36 | 37 | 38 |
| 250 | No. of micro-nozzles arranged in 4 rows | - | 20 | 28 | 36 | 44 | 52 | 60 | 76 | 92 |
| | $m^3/h$ | - | 120 | 167 | 215 | 263 | 311 | 359 | 454 | 550 |
| | L(m) | - | 7,5 | 9,0 | 10,5 | 12,0 | 13,0 | 13,5 | 14,0 | 16,5 |
| | dB(A) | - | 33 | 35 | 36 | 36 | 37 | 38 | 39 | 39 |
| 300 | No. of micro-nozzles arranged in 5 rows | - | 25 | 35 | 45 | 55 | 65 | 75 | 95 | 115 |
| | $m^3/h$ | - | 149 | 209 | 269 | 329 | 388 | 448 | 568 | 687 |
| | L(m) | - | 8,5 | 10,5 | 11,5 | 13,0 | 13,5 | 14,5 | 17,0 | 18,0 |
| | dB(A) | - | 34 | 35 | 36 | 37 | 38 | 39 | 39 | 40 |
| **Pressure drop: 50 Pa** | | | | | | | | | | |
| Effective cross-section: 0.0166 $dm^2$ x No. micro-nozzles | | | | | | | | | | |

## Price list:

| H | L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 200 | 275 | 350 | 425 | 500 | 700 | 800 | 1000 | 1200 |
| | euro | euro | euro | euro | euro | euro | euro | euro | euro |
| 100 | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ |
| 150 | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ |
| 200 | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ |
| 250 | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ |
| 300 | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ | ⌄ |