

## Series RGS



Sectional ventilation grille with gravity shutters

### Application

- Exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

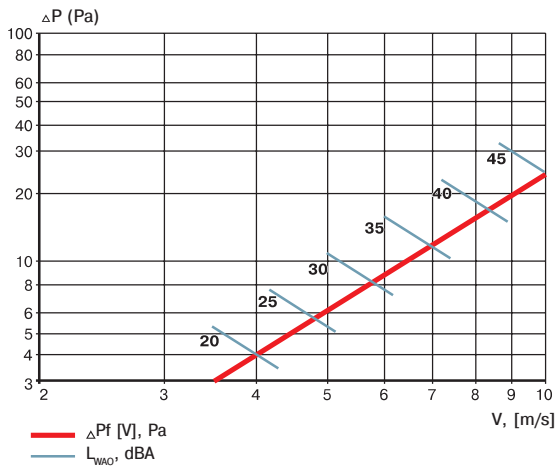
### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|               | 100           | 140   | 180   | 220   | 260   | 300   | 340   | 380  | 420   | 460   | 500   | 540   | 580   | 620   | 660   | 700   | 740   | 780  | 820   | 860   | 900   | 940   | 980   |
| 100           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.045 | 0.048 | 0.053 | 0.058 | 0.061 | 0.066 | 0.07 | 0.074 | 0.078 | 0.08  | 0.083 | 0.087 |
| 140           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.064 | 0.068 | 0.075 | 0.083 | 0.086 | 0.093 | 0.1  | 0.106 | 0.111 | 0.115 | 0.119 | 0.123 |
| 180           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.083 | 0.088 | 0.097 | 0.108 | 0.111 | 0.12  | 0.13 | 0.138 | 0.144 | 0.15  | 0.155 | 0.159 |
| 220           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.102 | 0.108 | 0.119 | 0.133 | 0.136 | 0.147 | 0.16 | 0.17  | 0.177 | 0.185 | 0.191 | 0.195 |
| 260           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.121 | 0.128 | 0.141 | 0.158 | 0.161 | 0.174 | 0.19 | 0.202 | 0.21  | 0.22  | 0.227 | 0.231 |
| 300           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.14  | 0.148 | 0.163 | 0.183 | 0.186 | 0.201 | 0.22 | 0.234 | 0.243 | 0.255 | 0.263 | 0.267 |
| 340           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.159 | 0.168 | 0.185 | 0.208 | 0.211 | 0.228 | 0.25 | 0.266 | 0.276 | 0.29  | 0.299 | 0.303 |
| 380           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.178 | 0.188 | 0.207 | 0.233 | 0.236 | 0.255 | 0.28 | 0.298 | 0.309 | 0.325 | 0.335 | 0.339 |
| 420           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.197 | 0.208 | 0.229 | 0.258 | 0.261 | 0.282 | 0.31 | 0.33  | 0.342 | 0.36  | 0.371 | 0.375 |
| 460           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.216 | 0.228 | 0.251 | 0.283 | 0.286 | 0.309 | 0.34 | 0.362 | 0.375 | 0.395 | 0.407 | 0.411 |
| 500           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.235 | 0.248 | 0.273 | 0.308 | 0.311 | 0.336 | 0.37 | 0.394 | 0.408 | 0.43  | 0.443 | 0.447 |
| 540           | 0.024         | 0.04  | 0.078 | 0.104 | 0.118 | 0.1   | 0.125 | 0.14 | 0.145 | 0.172 | 0.231 | 0.254 | 0.268 | 0.295 | 0.333 | 0.336 | 0.363 | 0.4  | 0.426 | 0.441 | 0.465 | 0.479 | 0.483 |
| 580           | 0.026         | 0.043 | 0.084 | 0.112 | 0.127 | 0.107 | 0.134 | 0.15 | 0.155 | 0.184 | 0.248 | 0.273 | 0.288 | 0.317 | 0.358 | 0.361 | 0.39  | 0.43 | 0.458 | 0.474 | 0.5   | 0.515 | 0.519 |
| 620           | 0.028         | 0.046 | 0.09  | 0.12  | 0.136 | 0.114 | 0.143 | 0.16 | 0.165 | 0.196 | 0.265 | 0.292 | 0.308 | 0.339 | 0.383 | 0.386 | 0.417 | 0.46 | 0.49  | 0.507 | 0.535 | 0.551 | 0.555 |
| 660           | 0.03          | 0.049 | 0.096 | 0.128 | 0.145 | 0.121 | 0.152 | 0.17 | 0.175 | 0.208 | 0.282 | 0.311 | 0.328 | 0.361 | 0.408 | 0.411 | 0.444 | 0.49 | 0.522 | 0.54  | 0.57  | 0.587 | 0.591 |
| 700           | 0.032         | 0.052 | 0.102 | 0.136 | 0.154 | 0.128 | 0.161 | 0.18 | 0.185 | 0.22  | 0.299 | 0.33  | 0.348 | 0.383 | 0.433 | 0.436 | 0.471 | 0.52 | 0.554 | 0.573 | 0.605 | 0.623 | 0.627 |
| 740           | 0.034         | 0.055 | 0.108 | 0.144 | 0.163 | 0.135 | 0.17  | 0.19 | 0.195 | 0.232 | 0.316 | 0.349 | 0.368 | 0.405 | 0.458 | 0.461 | 0.498 | 0.55 | 0.586 | 0.606 | 0.64  | 0.659 | 0.663 |
| 780           | 0.036         | 0.058 | 0.114 | 0.152 | 0.172 | 0.142 | 0.179 | 0.2  | 0.205 | 0.244 | 0.333 | 0.368 | 0.388 | 0.427 | 0.483 | 0.486 | 0.525 | 0.58 | 0.618 | 0.639 | 0.675 | 0.695 | 0.699 |
| 820           | 0.038         | 0.061 | 0.12  | 0.16  | 0.181 | 0.149 | 0.188 | 0.21 | 0.215 | 0.256 | 0.35  | 0.387 | 0.408 | 0.449 | 0.508 | 0.511 | 0.552 | 0.61 | 0.65  | 0.672 | 0.71  | 0.731 | 0.735 |
| 860           | 0.04          | 0.064 | 0.126 | 0.168 | 0.19  | 0.156 | 0.197 | 0.22 | 0.225 | 0.268 | 0.367 | 0.406 | 0.428 | 0.471 | 0.533 | 0.536 | 0.579 | 0.64 | 0.682 | 0.705 | 0.745 | 0.767 | 0.771 |
| 900           | 0.042         | 0.067 | 0.132 | 0.176 | 0.199 | 0.163 | 0.206 | 0.23 | 0.235 | 0.28  | 0.384 | 0.425 | 0.448 | 0.493 | 0.558 | 0.561 | 0.606 | 0.67 | 0.714 | 0.738 | 0.78  | 0.803 | 0.807 |
| 940           | 0.044         | 0.07  | 0.138 | 0.184 | 0.208 | 0.17  | 0.215 | 0.24 | 0.245 | 0.292 | 0.401 | 0.444 | 0.468 | 0.515 | 0.583 | 0.586 | 0.633 | 0.7  | 0.746 | 0.771 | 0.815 | 0.839 | 0.843 |
| 980           | 0.046         | 0.073 | 0.144 | 0.192 | 0.217 | 0.177 | 0.224 | 0.25 | 0.255 | 0.304 | 0.418 | 0.463 | 0.488 | 0.537 | 0.608 | 0.611 | 0.66  | 0.73 | 0.778 | 0.804 | 0.85  | 0.875 | 0.879 |

## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |     |      |     |
|------------------------------------|-------------------------|-----|------|-----|
|                                    | 0°                      | 22° | 45°  |     |
| $\Delta P_p = \Delta P \times K_p$ | $K_p$                   | 1   | 1.25 | 1.5 |

| Calculation formula         | Correction factor K        |      |      |      |     |     |     |
|-----------------------------|----------------------------|------|------|------|-----|-----|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{WAO} \times K$ | K [dBA]                    | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

V – rated speed [m/s]

## Order code



### Grille type:

RGS – gravity grille

### Grille size:

L – length [mm]

H – height [mm]

### Grille coating:

"\_" – colour\* (white by default)

"Anodized"

### Accessories:

\_\_ – no

A – adapter

### Grille fixation:

u – versatile

P – spring

### \* Standard polymer coating colours:



## Overall and mounting dimensions

