

## Series RP



Exhaust ventilation grille with a mesh insert



RP1 – expanded metal insert



RP2 –perforated insert with round holes

### Application

- Supply and 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

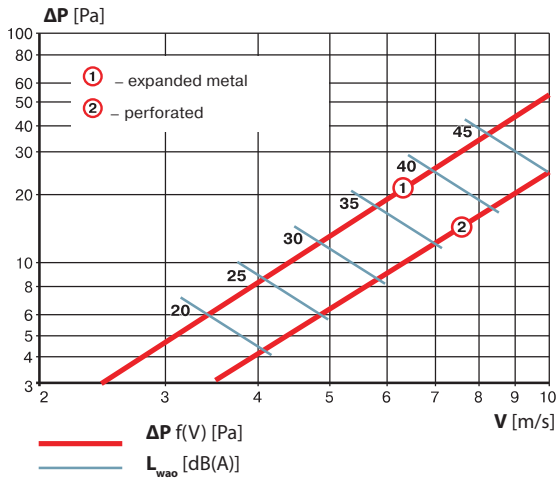
- Available modifications with an adapter (A) for connection to air ducts, page 42.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting, page 44.

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

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 100           | 0,006         | 0,008 | 0,010 | 0,012 | 0,016 | 0,018 | 0,020 | 0,023 | 0,026 | 0,033 | 0,037 | 0,043 | 0,047 | 0,050 |
| 150           |               | 0,010 | 0,015 | 0,019 | 0,024 | 0,027 | 0,030 | 0,041 | 0,046 | 0,051 | 0,059 | 0,068 | 0,075 | 0,082 |
| 200           |               |       | 0,022 | 0,028 | 0,036 | 0,040 | 0,044 | 0,054 | 0,062 | 0,076 | 0,087 | 0,102 | 0,113 | 0,124 |
| 250           |               |       |       | 0,038 | 0,042 | 0,048 | 0,054 | 0,073 | 0,083 | 0,103 | 0,118 | 0,138 | 0,153 | 0,168 |
| 300           |               |       |       |       | 0,058 | 0,065 | 0,071 | 0,099 | 0,112 | 0,139 | 0,159 | 0,176 | 0,199 | 0,221 |
| 350           |               |       |       |       |       | 0,067 | 0,087 | 0,110 | 0,123 | 0,153 | 0,175 | 0,211 | 0,231 | 0,252 |
| 400           |               |       |       |       |       |       | 0,102 | 0,120 | 0,134 | 0,166 | 0,190 | 0,245 | 0,264 | 0,282 |
| 450           |               |       |       |       |       |       |       | 0,143 | 0,162 | 0,201 | 0,230 | 0,269 | 0,299 | 0,328 |
| 500           |               |       |       |       |       |       |       |       | 0,184 | 0,228 | 0,261 | 0,305 | 0,338 | 0,371 |
| 600           |               |       |       |       |       |       |       |       |       | 0,283 | 0,324 | 0,378 | 0,419 | 0,460 |
| 700           |               |       |       |       |       |       |       |       |       |       | 0,370 | 0,433 | 0,480 | 0,527 |
| 800           |               |       |       |       |       |       |       |       |       |       |       | 0,505 | 0,561 | 0,616 |
| 900           |               |       |       |       |       |       |       |       |       |       |       |       | 0,628 | 0,684 |
| 1000          |               |       |       |       |       |       |       |       |       |       |       |       |       | 0,751 |

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 100           | 0,003         | 0,005 | 0,007 | 0,009 | 0,011 | 0,013 | 0,015 | 0,017 | 0,019 | 0,024 | 0,026 | 0,032 | 0,035 | 0,038 |
| 150           |               | 0,008 | 0,012 | 0,014 | 0,017 | 0,021 | 0,024 | 0,027 | 0,031 | 0,039 | 0,043 | 0,520 | 0,058 | 0,063 |
| 200           |               |       | 0,017 | 0,021 | 0,026 | 0,031 | 0,035 | 0,040 | 0,046 | 0,057 | 0,063 | 0,076 | 0,084 | 0,092 |
| 250           |               |       |       | 0,026 | 0,032 | 0,038 | 0,044 | 0,050 | 0,057 | 0,071 | 0,078 | 0,094 | 0,104 | 0,114 |
| 300           |               |       |       |       | 0,041 | 0,049 | 0,056 | 0,063 | 0,071 | 0,088 | 0,101 | 0,118 | 0,131 | 0,143 |
| 350           |               |       |       |       |       | 0,059 | 0,066 | 0,074 | 0,083 | 0,104 | 0,119 | 0,139 | 0,154 | 0,169 |
| 400           |               |       |       |       |       |       | 0,076 | 0,085 | 0,095 | 0,120 | 0,137 | 0,160 | 0,177 | 0,194 |
| 450           |               |       |       |       |       |       |       | 0,096 | 0,109 | 0,135 | 0,149 | 0,180 | 0,198 | 0,216 |
| 500           |               |       |       |       |       |       |       |       | 0,123 | 0,138 | 0,153 | 0,170 | 0,204 | 0,246 |
| 600           |               |       |       |       |       |       |       |       |       | 0,154 | 0,171 | 0,190 | 0,228 | 0,274 |
| 700           |               |       |       |       |       |       |       |       |       |       | 0,189 | 0,210 | 0,253 | 0,304 |
| 800           |               |       |       |       |       |       |       |       |       |       |       | 0,233 | 0,281 | 0,338 |
| 900           |               |       |       |       |       |       |       |       |       |       |       |       | 0,338 | 0,407 |
| 1000          |               |       |       |       |       |       |       |       |       |       |       |       |       | 0,489 |

## Pressure loss and sound power level



| Calculation formula    |
|------------------------|
| $L_{WA} = L_{WAO} + K$ |

| $S_{ap}$ [m <sup>2</sup> ] | Correction factor K |      |      |      |     |     |     |
|----------------------------|---------------------|------|------|------|-----|-----|-----|
|                            | 0,001               | 0,01 | 0,02 | 0,05 | 0,1 | 0,2 | 0,4 |
| K [dB(A)]                  | -                   | -    | -    | -    | 0   | +3  | +6  |

### Designation:

$\Delta P$  – pressure loss [Pa]

$L_{WA}$  – sound power level [dB(A)]

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

$K$  – correction factor for sound power level calculation depending on air pass [dB(A)]

$S_{ap}$  – air pass [m<sup>2</sup>]

$V$  – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
RP – grille with a mesh insert

**Тип вставки:** \_\_\_\_\_  
1 – expanded metal  
2 – perforated with round holes

**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

