

## BP-S, BP-S AL, RBP-S – VENTILATION GRILLES FOR SPIRO AIR DUCTS



### Description

- Designed for supply or exhaustion of air from round air ducts in the systems for ventilation and air-conditioning.

### Installation

- For direct installation on the air duct.

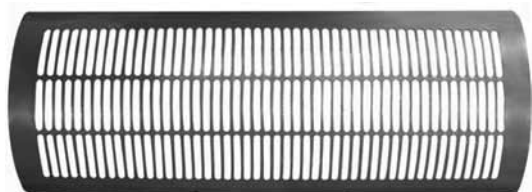
### Accessories

- Multiblade damper (+M)

### Modifications

- **BP-S** – Ventilation grille for round air duct made of galvanized metal sheets. Possible versions with horizontal (-X) or vertical (-B) cuts, and also from stainless metal sheet.
- **BP-S AL** – Ventilation grille for round air duct made of extruded aluminium profiles. Modification available only with horizontal lamellas.
- **RBP-S** (on the picture above) – Rectangular ventilation grille for round air duct made of extruded aluminium profiles. Possible versions with horizontal (-X), vertical (-B) or double directed lamellas (-II).
- Powder coated in RAL 9010 colour as a standard, painting in all RAL colours is available on customer's request.

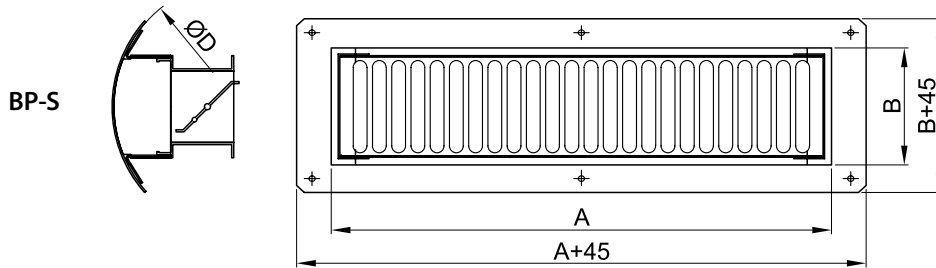
BP-S-B



BP-S AL



BP-S – Overall and joined dimensions

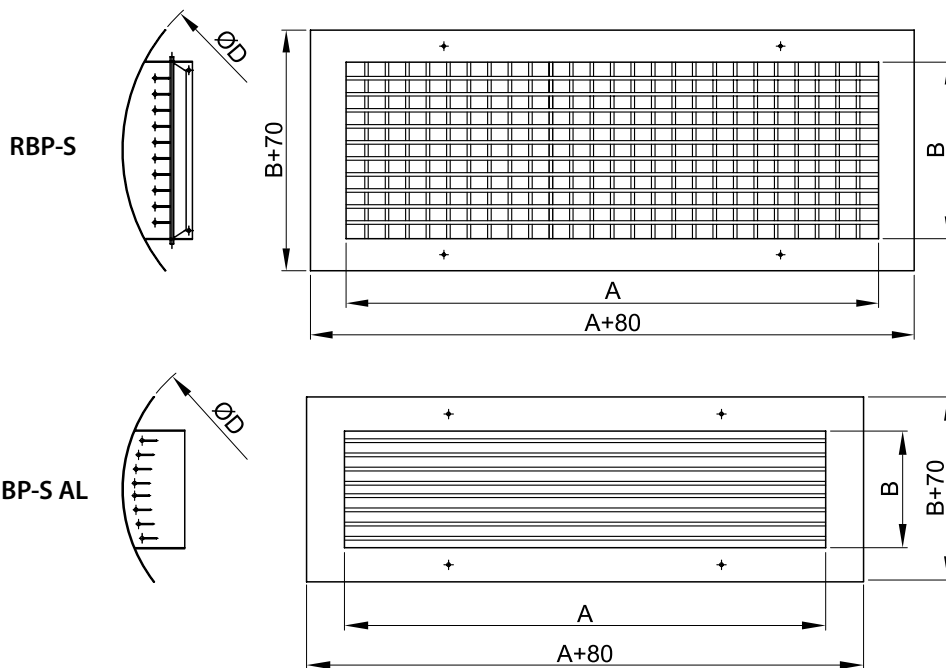


| A x B [mm] | $\varnothing D$ [mm] | $F_{eff}$ [m <sup>2</sup> ] |
|------------|----------------------|-----------------------------|
| 225 x 75   | 160                  | 0.008                       |
| 325 x 75   |                      | 0.013                       |
| 425 x 75   |                      | 0.017                       |
| 525 x 75   |                      | 0.021                       |
| 625 x 75   |                      | 0.025                       |
| 825 x 75   | 300                  | 0.033                       |

| A x B [mm] | $\varnothing D$ [mm] | $F_{eff}$ [m <sup>2</sup> ] |
|------------|----------------------|-----------------------------|
| 325 x 125  | 250                  | 0.023                       |
| 425 x 125  |                      | 0.031                       |
| 525 x 125  |                      | 0.039                       |
| 625 x 125  |                      | 0.047                       |
| 825 x 125  |                      | 0.062                       |
| 1025 x 125 | 800                  | 0.078                       |

| A x B [mm] | $\varnothing D$ [mm] | $F_{eff}$ [m <sup>2</sup> ] |
|------------|----------------------|-----------------------------|
| 425 x 225  | 400                  | 0.056                       |
| 525 x 225  |                      | 0.070                       |
| 625 x 225  |                      | 0.084                       |
| 825 x 225  |                      | 0.112                       |
| 1025 x 225 |                      | 0.141                       |
| 1225 x 225 | 800                  | 0.169                       |

RBP-S and BP-S AL – Overall and joined dimensions



| A x B [mm] | $\varnothing D$ [mm] | $F_o$ [m <sup>2</sup> ] |
|------------|----------------------|-------------------------|
| 325 x 125  | 250                  | 0.030                   |
| 425 x 125  |                      | 0.040                   |
| 525 x 125  |                      | 0.050                   |
| 625 x 125  |                      | 0.060                   |
| 825 x 125  |                      | 0.080                   |
| 1025 x 125 | 800                  | 0.100                   |
| 1225 x 125 |                      | 0.120                   |

| A x B [mm] | $\varnothing D$ [mm] | $F_o$ [m <sup>2</sup> ] |
|------------|----------------------|-------------------------|
| 325 x 225  | 400                  | 0.060                   |
| 425 x 225  |                      | 0.080                   |
| 525 x 225  |                      | 0.100                   |
| 625 x 225  |                      | 0.120                   |
| 825 x 225  |                      | 0.160                   |
| 1025 x 225 | 800                  | 0.200                   |
| 1225 x 225 |                      | 0.240                   |

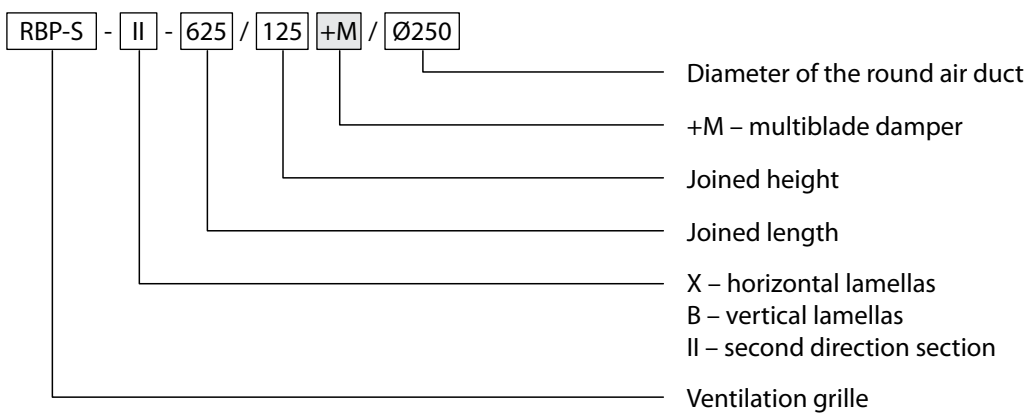
| A x B [mm] | $\varnothing D$ [mm] | $F_o$ [m <sup>2</sup> ] |
|------------|----------------------|-------------------------|
| 325 x 325  | 630                  | 0.090                   |
| 425 x 325  |                      | 0.120                   |
| 525 x 325  |                      | 0.150                   |
| 625 x 325  |                      | 0.180                   |
| 825 x 325  |                      | 0.240                   |
| 1025 x 325 | 1200                 | 0.300                   |
| 1225 x 325 |                      | 0.360                   |

| A x B [mm] | $\varnothing D$ [mm] | $F_o$ [m <sup>2</sup> ] |
|------------|----------------------|-------------------------|
| -          | 800                  | -                       |
| 425 x 425  |                      | 0.160                   |
| 525 x 425  |                      | 0.200                   |
| 625 x 425  |                      | 0.240                   |
| 825 x 425  |                      | 0.320                   |
| 1025 x 425 | 1200                 | 0.400                   |
| 1225 x 425 |                      | 0.480                   |

Pressure drop  $\Delta P$  [Pa] and noise level L [dB(A)]

|                              | $W_0$ [m/s]     | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |
|------------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Without blade damper         | $\Delta P$ [Pa] | -   | -   | -   | 6   | 9   | 12  | 16  | 20  | 25  |
|                              | L [dB(A)]       | -   | -   | -   | 26  | 32  | 35  | 37  | 40  | 43  |
| With blade damper, 100% open | $\Delta P$ [Pa] | -   | -   | -   | 3   | 5   | 6   | 10  | 15  | 20  |
|                              | L [dB(A)]       | -   | -   | -   | 20  | 25  | 27  | 35  | 39  | 42  |
| With blade damper, 50% open  | $\Delta P$ [Pa] | -   | -   | 4   | 8   | 8   | 14  | 20  | 30  | -   |
|                              | L [dB(A)]       | -   | -   | 24  | 28  | 30  | 35  | 40  | 45  | -   |
| With blade damper, 25% open  | $\Delta P$ [Pa] | -   | 8   | 12  | 18  | 30  | 35  | 50  | -   | -   |
|                              | L [dB(A)]       | -   | 25  | 28  | 35  | 40  | 42  | 48  | -   | -   |

Order designation



- Main parameters

- Optional parameters