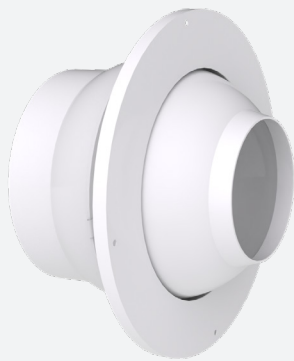


# JD SHORT

## JET DIFFUSER SHORT PIPE



### VARIANTS

JD150, JD160, JD170,  
JD150P, JD160P, JD170P

The jet diffusers, type JD, are especially developed for large and high areas such as concert halls, theaters, galleries, airports, shopping centres, industrial plants,... Through their aerodynamic design they ensure a reduced noise level at high outlet velocities and establish a long throw. The jet is adjustable over 360°. With different supply air temperatures (cooling or heating) the jet can be oriented +30° upwards or -30° downwards.

Adjustable +30°/-30° (cooling/heating)

Rotates 360°

High induction level

Low noise level



### TECHNICAL INFORMATION

|              |                           |  |
|--------------|---------------------------|--|
| APPLICATION  | Type                      | Supply   |
|              | Direction                 | Adjustable +30° up and -30° down, 360° swiveling         |
| CONSTRUCTION | Type                      | 125/160/200/250/315/400mm                                |
|              | Volume control            | Disk   |
| MATERIAL     | Standard material         | Painted aluminium  |
|              | Wall flange               | Painted steel  |
|              | Standard finishing        | Powder coating RAL9010                                   |
|              | Product finishing options | Powder coating RAL of choice                             |
| MOUNTING     | Mounting options          | Visible screw fixing or direct mounting on circular duct |

### EFFECTIVE AIR DISCHARGE AREA

| A <sub>e</sub> [m²] Supply |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|
| ØN [mm]                    |        |        |        |        |        |
| 125                        | 160    | 200    | 250    | 315    | 400    |
| 0.0036                     | 0.0057 | 0.0102 | 0.0168 | 0.0259 | 0.0408 |

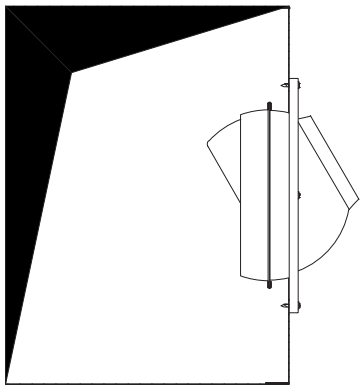
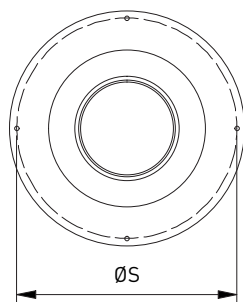
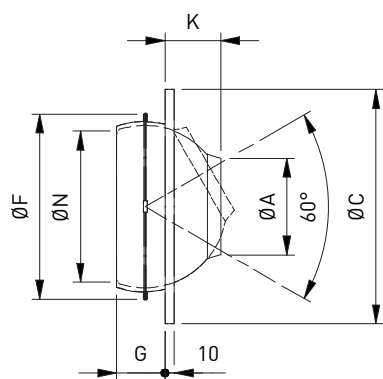
## QUICK SELECTION

| Supply $Q_v$ [m³/h] |                  | ØN [mm] |     |     |      |     |     |
|---------------------|------------------|---------|-----|-----|------|-----|-----|
|                     |                  | 125     | 160 | 200 | 250  | 315 | 400 |
| 50                  | $L_{i,0,20}$ [m] | 7       | 5   | -   | -    | -   | -   |
|                     | $\Delta P_{tot}$ | 8       | 2   | -   | -    | -   | -   |
|                     | $L_w$ [dB(A)]    | <20     | <20 | -   | -    | -   | -   |
| 100                 | $L_{i,0,20}$ [m] | 13      | 9   | 6   | -    | -   | -   |
|                     | $\Delta P_{tot}$ | 31      | 9   | 3   | -    | -   | -   |
|                     | $L_w$ [dB(A)]    | <20     | <20 | <20 | -    | -   | -   |
| 150                 | $L_{i,0,20}$ [m] | 19      | 14  | 9   | 6    | -   | -   |
|                     | $\Delta P_{tot}$ | 70      | 20  | 7   | 3    | -   | -   |
|                     | $L_w$ [dB(A)]    | <20     | <20 | <20 | <20  | -   | -   |
| 200                 | $L_{i,0,20}$ [m] | 25      | 18  | 12  | 8    | 5   | -   |
|                     | $\Delta P_{tot}$ | 124     | 36  | 12  | 4    | 2   | -   |
|                     | $L_w$ [dB(A)]    | <20     | <20 | <20 | <20  | <20 | -   |
| 250                 | $L_{i,0,20}$ [m] | -       | 23  | 15  | 10   | 6   | 3   |
|                     | $\Delta P_{tot}$ | -       | 56  | 19  | 7    | 3   | 1   |
|                     | $L_w$ [dB(A)]    | -       | 23  | <20 | <20  | <20 | <20 |
| 400                 | $L_{i,0,20}$ [m] | -       | -   | 24  | 15.9 | 9.7 | 4.4 |
|                     | $\Delta P_{tot}$ | -       | -   | 48  | 18   | 7   | 3   |
|                     | $L_w$ [dB(A)]    | -       | -   | 22  | <20  | <20 | <20 |
| 500                 | $L_{i,0,20}$ [m] | -       | -   | 30  | 20   | 12  | 6   |
|                     | $\Delta P_{tot}$ | -       | -   | 75  | 28   | 10  | 4   |
|                     | $L_w$ [dB(A)]    | -       | -   | 27  | <20  | <20 | <20 |
| 700                 | $L_{i,0,20}$ [m] | -       | -   | -   | 28   | 17  | 8   |
|                     | $\Delta P_{tot}$ | -       | -   | -   | 55   | 20  | 8   |
|                     | $L_w$ [dB(A)]    | -       | -   | -   | 23   | <20 | <20 |
| 900                 | $L_{i,0,20}$ [m] | -       | -   | -   | 35   | 22  | 10  |
|                     | $\Delta P_{tot}$ | -       | -   | -   | 91   | 33  | 13  |
|                     | $L_w$ [dB(A)]    | -       | -   | -   | 30   | <20 | <20 |
| 1200                | $L_{i,0,20}$ [m] | -       | -   | -   | -    | 29  | 13  |
|                     | $\Delta P_{tot}$ | -       | -   | -   | -    | 59  | 24  |
|                     | $L_w$ [dB(A)]    | -       | -   | -   | -    | <20 | <20 |
| 1300                | $L_{i,0,20}$ [m] | -       | -   | -   | -    | 31  | 15  |
|                     | $\Delta P_{tot}$ | -       | -   | -   | -    | 69  | 28  |
|                     | $L_w$ [dB(A)]    | -       | -   | -   | -    | <20 | <20 |
| 2000                | $L_{i,0,20}$ [m] | -       | -   | -   | -    | -   | 22  |
|                     | $\Delta P_{tot}$ | -       | -   | -   | -    | -   | 66  |
|                     | $L_w$ [dB(A)]    | -       | -   | -   | -    | -   | <20 |

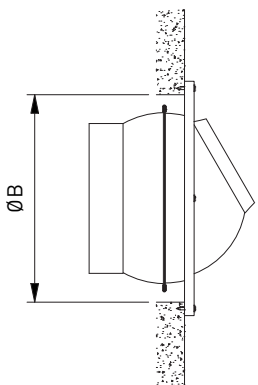
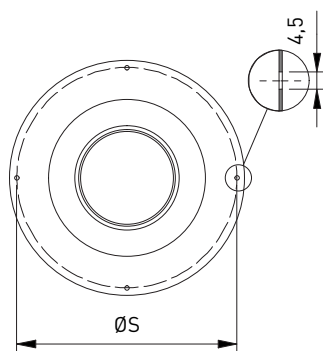
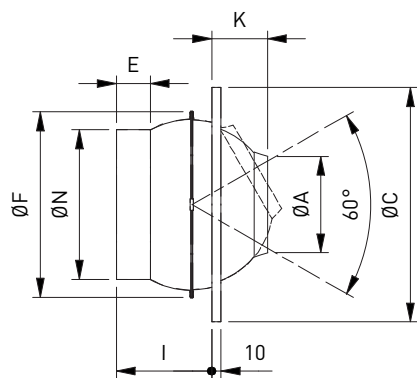
PRODUCT KEY

| JET DIFFUSER SHORT PIPE |   |   |   |   |   |   |    |   |   |   |   |
|-------------------------|---|---|---|---|---|---|----|---|---|---|---|
| J                       | D | 1 | 6 | 0 | - | F | -- | 0   | 2 | 0 | 0 |
|                         |   |   |   |   |   |   |    | Nominal diameter N (mm):<br>125, 160, 200, 250, 315, 400  |   |   |   |
|                         |   |   |   |   |   |   |    | F: Coated   |   |   |   |
|                         |   |   |   |   |   |   |    | 0: Without damper<br>1: With damper (not possible for Ø125)   |   |   |   |
|                         |   |   |   |   |   |   |    | 5: Wall mounting, without connection collar<br>6: Wall mounting, with connection collar<br>7: Direct mounting on circular duct, without wall flange |   |   |   |

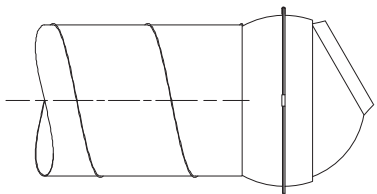
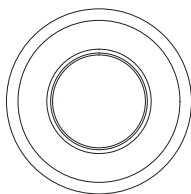
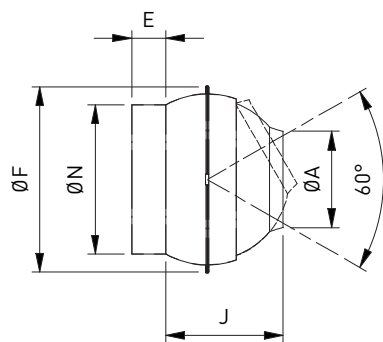
| JET DIFFUSER SHORT PIPE FOR WALL MOUNTING, MOUNTED ON PANEL |   |   |   |   |   |   |    |  |   |   |   |
|---|---|---|---|---|---|---|----|--|---|---|---|
| J   | D | 1 | 6 | 0 | - | F | P2 | 0  | 2 | 0 | 0 |
|   |   |   |   |   |   |   |    | Nominal diameter N (mm):<br>125, 160, 200, 250, 315, 400   |   |   |   |
|   |   |   |   |   |   |   |    | P2: 2 jets mounted on panel<br>P3: 3 jets mounted on panel<br>P4: 4 jets mounted on panel<br>P5: 5 jets mounted on panel |   |   |   |
|   |   |   |   |   |   |   |    | F: Coated  |   |   |   |
|   |   |   |   |   |   |   |    | 0: Without damper<br>1: With damper (not possible for Ø125)  |   |   |   |
|   |   |   |   |   |   |   |    | 5: Mounted on panel, without connection collar<br>6: Mounted on panel, with connection collar                            |   |   |   |



JD160-F--



JD170-F--

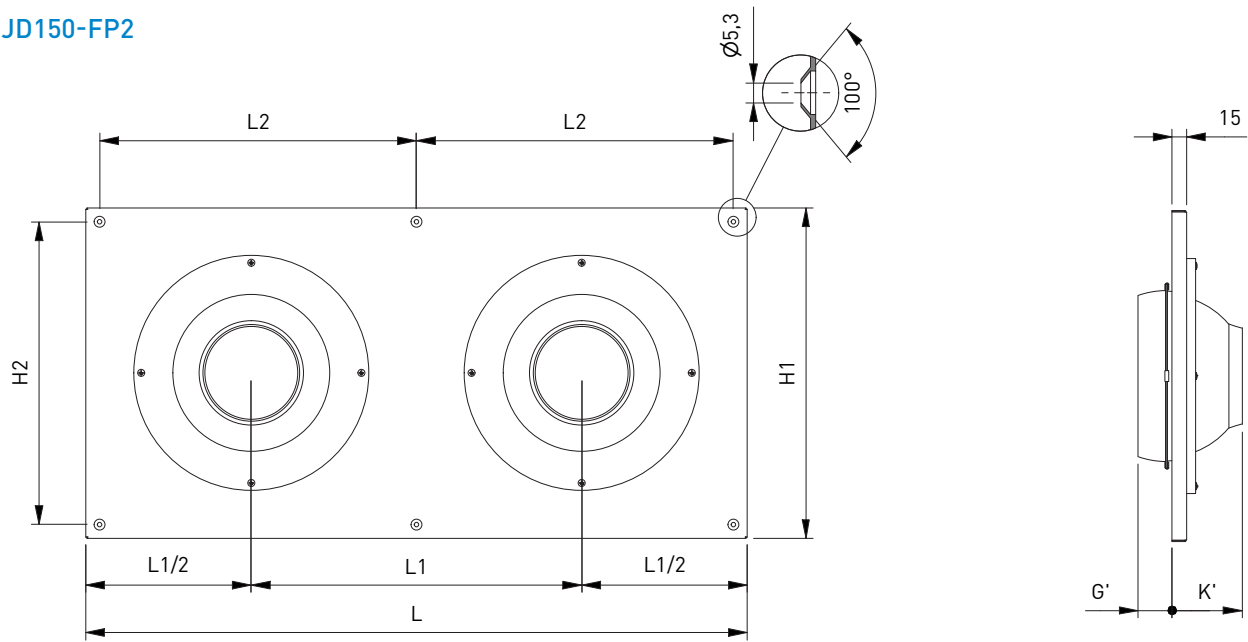


DIMENSIONS

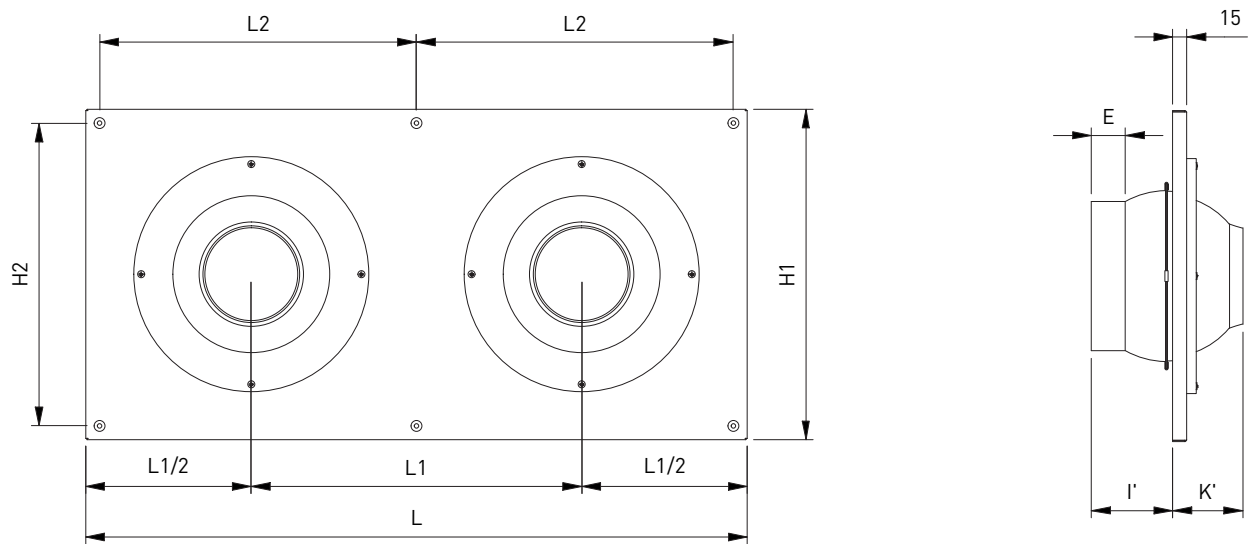
| $\varnothing N$ | $\varnothing A$ | $\varnothing B$ | $\varnothing C$ | E  | $\varnothing F$ | G   | I   | J   | K   | $\varnothing S$ |
|-----------------|-----------------|-----------------|-----------------|----|-----------------|-----|-----|-----|-----|-----------------|
| 125             | 79              | 166             | 195             | 39 | 158             | 39  | 89  | 97  | 47  | 175             |
| 160             | 102             | 210             | 248             | 36 | 196             | 51  | 101 | 124 | 59  | 233             |
| 200             | 135             | 247             | 298             | 39 | 238             | 66  | 116 | 141 | 64  | 270             |
| 250             | 174             | 297             | 363             | 43 | 288             | 81  | 131 | 162 | 74  | 320             |
| 315             | 215             | 367             | 452             | 51 | 355             | 101 | 156 | 200 | 80  | 390             |
| 400             | 265             | 473             | 600             | 61 | 450             | 121 | 189 | 257 | 129 | 570             |

All dimensions in mm

JD150-FP2



JD160-FP2



DIMENSIONS

| ØN  | # Jets | E  | G'  | I'  | L    | L1  | L2  | H1  | H2  | K'  |
|-----|--------|----|-----|-----|------|-----|-----|-----|-----|-----|
| 125 | 2      | 39 | 24  | 74  | 600  | 300 | 285 | 300 | 270 | 62  |
|     | 3      | 39 | 24  | 74  | 900  | 300 | 290 | 300 | 270 | 62  |
|     | 4      | 39 | 24  | 74  | 1200 | 300 | 290 | 300 | 270 | 62  |
|     | 5      | 39 | 24  | 74  | 1500 | 300 | 290 | 300 | 270 | 62  |
| 160 | 2      | 36 | 36  | 86  | 700  | 350 | 335 | 350 | 320 | 74  |
|     | 3      | 36 | 36  | 86  | 1050 | 350 | 340 | 350 | 320 | 74  |
|     | 4      | 36 | 36  | 86  | 1400 | 350 | 340 | 350 | 320 | 74  |
|     | 5      | 36 | 36  | 86  | 1750 | 350 | 340 | 350 | 320 | 74  |
| 200 | 2      | 39 | 51  | 101 | 800  | 400 | 385 | 400 | 370 | 79  |
|     | 3      | 39 | 51  | 101 | 1200 | 400 | 390 | 400 | 370 | 79  |
|     | 4      | 39 | 51  | 101 | 1600 | 400 | 390 | 400 | 370 | 79  |
|     | 5      | 39 | 51  | 101 | 2000 | 400 | 390 | 400 | 370 | 79  |
| 250 | 2      | 43 | 66  | 116 | 900  | 450 | 435 | 450 | 420 | 89  |
|     | 3      | 43 | 66  | 116 | 1350 | 450 | 440 | 450 | 420 | 89  |
|     | 4      | 43 | 66  | 116 | 1800 | 450 | 440 | 450 | 420 | 89  |
|     | 5      | 43 | 66  | 116 | 2250 | 450 | 440 | 450 | 420 | 89  |
| 315 | 2      | 51 | 86  | 141 | 1040 | 520 | 505 | 520 | 490 | 95  |
|     | 3      | 51 | 86  | 141 | 1560 | 520 | 510 | 520 | 490 | 95  |
|     | 4      | 51 | 86  | 141 | 2080 | 520 | 510 | 520 | 490 | 95  |
|     | 5      | 51 | 86  | 141 | 2600 | 520 | 510 | 520 | 490 | 95  |
| 400 | 2      | 61 | 106 | 174 | 1250 | 625 | 610 | 625 | 595 | 154 |
|     | 3      | 61 | 106 | 174 | 1875 | 625 | 615 | 625 | 595 | 154 |
|     | 4      | 61 | 106 | 174 | 2500 | 625 | 615 | 625 | 595 | 154 |

All dimensions in mm

JD171-F--

