



**DPC**  
Circular External Louvre

# Venues Breathe with DOGU HVAC Systems!

DOGU HVAC founded in 1999, and ever since has been manufacturing Energy-and Cost-Efficient products as Air Handling Units, Air Distribution & Management & Movement Systems [HVAC Components] and constantly enhancing to provide an integrated solution for well-being. DOGU HVAC's core business products which are subsumed under four major groups as Air Handling Units, Heat/Energy Recovery Units, Air Distribution & Management Products and Kitchen Ventilation Equipment are all produced under the compliance with EU standarts. Particularly AHU and HRU-ER units are entitled under the "FOUR SEASONS" brand name for domestic and foreign markets. DOGU HVAC's, headquarter in Izmir/Turkey, operates in a large-sized plant spread over two factories, in total area of 45.000 sqm in which 25.000 sqm indoor space that enables DOGU HVAC manufactures 140 various type of products. Additionally, DOGU HVAC has a powerful sales network with three sales offices located in Istanbul, Ankara and Antalya in Turkey as well as authorized dealers in many other countries for sales and after sales operations. DOGU HVAC has been exporting to more than 50 countries.

Thanks to our "Customer Satisfaction", "Zero-Defect Policy" motto and reinforced by complete certified products, more than 250 employees. DOGU HVAC R&D center developed exclusive products, such as Double Skin Make-Up Kitchen Hood, Recirculated Laminar Airflow Unit, Single Piece Square Ceiling Diffuser and Ecology Units, for the first time have brought to the sector. DOGU HVAC R&D has the ability to make customized production which can meet the requirement of the customers by means of special software such as "ANSYS FLUENT". DOGU HVAC guaranteed its quality of management by having advantages of ISO 9001, ISO 14001, ISO 18001 certifications. Air Handling Units have EUROVENT, TUV Hygiene [in accordance with DIN1946-4, VDI 6022-1, DIN EN 13053 standarts], CE, TSEK, GOST-R certifications; Fire Dampers have EN 1366-2 and EN 13501-3 CE certifications; Smoke Control Dampers have EN 1366-10 and 12101-8 CE certifications; Kitchen Ventilation Products have TSE, CE and GOST-R quality certifications.



- € DPC - Circular External Louvre is practical to clean as it is convenient for mounting in circular ducts with its circular design.
- € It is resistant to external environment thanks to its galvanized sheet coating.
- € The fixed blade design of the product prevents the ingress of unwanted rain water from the outside environment.



## MATERIAL

- € Galvanized sheet

## SURFACE COATING

- € RAL 9010 or RAL 9016 electrostatic powder paint as standard
- € Optional
  - Different RAL color codes
  - Unpainted manufacturing

## MOUNTING OPTIONS

- € Screw System
- € Mounting Without Hole

## ACCESSORIES

- € Optional
  - 10x10 wire



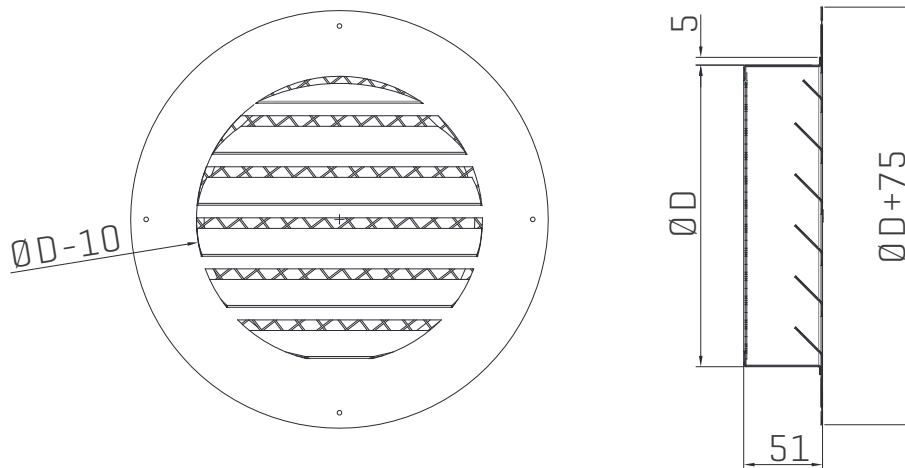
10x10 wire

## PRODUCT SELECTION

After determining the desired product dimensions, characteristic performance data are checked from the selection table.

## STANDARD DIMENSIONS

The size limits to be given for the order, with the selected diameter size  $\emptyset D$ :



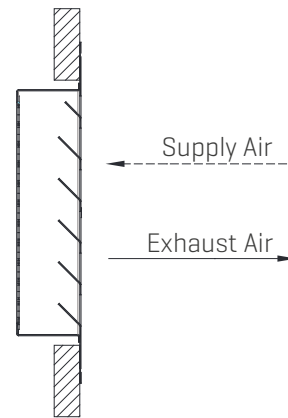
**Table 1.** Standard Dimensions

|                                    |   |
|------------------------------------|---|
| <b>D (Diameter)</b><br><b>[mm]</b> | 65 - 95 - 100 - 115 - 125 - 140 - 150 - 155 - 160 - 170   |
|                                    | 180 - 185 - 190 - 195 - 200 - 210 - 225 - 240 - 245 - 250 |
|                                    | 260 - 270 - 280 - 290 - 295 - 300 - 315 - 330 - 340 - 350 |
|                                    | 355 - 370 - 380 - 385 - 390 - 400 - 440 - 450 - 460 - 480 |
|                                    | 490 - 500 - 510 - 540 - 550 - 580 - 590 - 600 - 620 - 630 |
|                                    | 690 - 700 - 710 - 750 - 800 - 880 - 900                   |

## PERFORMANCE DATA

Performance data according to the fresh air supply into the space and the exhaust air from the space to the outside are given below.

Product selection is made according to the desired diameter and flow rate values.



## SUPPLY AIR DATA

Table 2. Supply air data for sizes between Ø65 - Ø200

| Flow Rate [m <sup>3</sup> / h] |                           | D [Diameter] [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                |                           | 65                | 95  | 100 | 115 | 125 | 140 | 150 | 155 | 160 | 170 | 180 | 185 | 190 | 195 | 200 |
| 50                             | Pressure Drop [Pa]        | 145               | 32  | 26  | 11  | 11  | 7   | 5   | 4   | 4   | 3   | 2   | 2   | 2   | 2   | 2   |
|                                | Sound Power Level [dB(A)] | <39               | 19  | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 100                            | Pressure Drop [Pa]        |                   | 126 | 103 | 59  | 42  | 27  | 20  | 18  | 16  | 12  | 10  | 9   | 8   | 7   | 6   |
|                                | Sound Power Level [dB(A)] |                   | 40  | 37  | 30  | 26  | 20  | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 125                            | Pressure Drop [Pa]        |                   |     |     | 91  | 65  | 42  | 32  | 28  | 24  | 19  | 15  | 14  | 12  | 11  | 10  |
|                                | Sound Power Level [dB(A)] |                   |     |     | 37  | 32  | 26  | 23  | 21  | 19  | 16  | <15 | <15 | <15 | <15 | <15 |
| 150                            | Pressure Drop [Pa]        |                   |     |     | 131 | 94  | 60  | 45  | 40  | 35  | 27  | 22  | 20  | 18  | 16  | 14  |
|                                | Sound Power Level [dB(A)] |                   |     |     | 42  | 38  | 32  | 28  | 27  | 25  | 22  | 19  | 17  | 16  | <15 | <15 |
| 175                            | Pressure Drop [Pa]        |                   |     |     |     | 128 | 81  | 62  | 54  | 48  | 37  | 30  | 27  | 24  | 22  | 19  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     | 43  | 37  | 33  | 31  | 30  | 26  | 23  | 22  | 21  | 19  | 18  |
| 200                            | Pressure Drop [Pa]        |                   |     |     |     | 106 | 80  | 71  | 62  | 49  | 39  | 35  | 31  | 28  | 25  | 22  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     | 41  | 37  | 35  | 34  | 31  | 28  | 26  | 25  | 23  | 22  | 22  |
| 225                            | Pressure Drop [Pa]        |                   |     |     |     | 134 | 102 | 89  | 79  | 62  | 49  | 44  | 39  | 36  | 32  | 32  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     | 44  | 41  | 39  | 37  | 34  | 31  | 30  | 28  | 27  | 26  | 26  |
| 250                            | Pressure Drop [Pa]        |                   |     |     |     |     | 125 | 110 | 97  | 76  | 60  | 54  | 49  | 44  | 40  | 40  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     | 44  | 42  | 40  | 37  | 34  | 33  | 31  | 30  | 29  | 29  |
| 300                            | Pressure Drop [Pa]        |                   |     |     |     |     |     |     | 139 | 109 | 87  | 78  | 70  | 63  | 57  | 57  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     | 46  | 43  | 40  | 38  | 37  | 36  | 34  | 34  |
| 350                            | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 149 | 118 | 106 | 95  | 86  | 77  | 77  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 47  | 44  | 43  | 42  | 40  | 39  | 39  |
| 400                            | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     | 138 | 124 | 112 | 101 |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     | 47  | 46  | 44  | 43  |
| 450                            | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     |     |     | 141 | 128 |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     |     |     | 48  | 47  |

Table 3. Supply air data for sizes Ø210 - Ø350

| Flow Rate [m <sup>3</sup> / h] |                           | D [Diameter] [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                |                           | 210               | 225 | 240 | 245 | 250 | 260 | 270 | 280 | 290 | 295 | 300 | 315 | 330 | 340 | 350 |
| 100                            | Pressure Drop [Pa]        | 5                 | 4   | 3   | 3   | 3   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
|                                | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 200                            | Pressure Drop [Pa]        | 21                | 16  | 12  | 11  | 10  | 9   | 8   | 7   | 6   | 5   | 5   | 4   | 3   | 3   | 3   |
|                                | Sound Power Level [dB(A)] | 19                | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 300                            | Pressure Drop [Pa]        | 47                | 36  | 27  | 25  | 23  | 20  | 17  | 15  | 13  | 12  | 11  | 9   | 8   | 7   | 6   |
|                                | Sound Power Level [dB(A)] | 32                | 28  | 25  | 24  | 23  | 21  | 19  | 17  | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 400                            | Pressure Drop [Pa]        | 83                | 63  | 49  | 45  | 41  | 35  | 30  | 26  | 23  | 21  | 20  | 16  | 14  | 12  | 11  |
|                                | Sound Power Level [dB(A)] | 40                | 37  | 34  | 32  | 31  | 29  | 27  | 25  | 24  | 23  | 22  | 19  | 17  | 15  | <15 |
| 500                            | Pressure Drop [Pa]        | 130               | 98  | 76  | 70  | 65  | 55  | 47  | 41  | 36  | 33  | 31  | 26  | 21  | 19  | 17  |
|                                | Sound Power Level [dB(A)] | 47                | 44  | 40  | 39  | 38  | 36  | 34  | 32  | 30  | 30  | 29  | 26  | 24  | 22  | 21  |
| 600                            | Pressure Drop [Pa]        |                   | 141 | 109 | 101 | 93  | 79  | 68  | 59  | 51  | 48  | 45  | 37  | 31  | 27  | 24  |
|                                | Sound Power Level [dB(A)] |                   | 49  | 46  | 45  | 44  | 42  | 40  | 38  | 36  | 35  | 34  | 32  | 29  | 28  | 26  |
| 700                            | Pressure Drop [Pa]        |                   |     | 148 | 137 | 126 | 108 | 93  | 80  | 70  | 65  | 61  | 50  | 41  | 37  | 33  |
|                                | Sound Power Level [dB(A)] |                   |     | 50  | 49  | 48  | 46  | 44  | 42  | 41  | 40  | 39  | 36  | 34  | 32  | 31  |
| 800                            | Pressure Drop [Pa]        |                   |     |     |     |     | 141 | 121 | 105 | 91  | 85  | 79  | 65  | 54  | 48  | 43  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     | 50  | 48  | 46  | 45  | 44  | 43  | 40  | 38  | 36  | 35  |
| 900                            | Pressure Drop [Pa]        |                   |     |     |     |     |     |     | 132 | 115 | 107 | 100 | 82  | 68  | 61  | 54  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     | 50  | 48  | 47  | 46  | 44  | 41  | 40  | 38  |
| 1000                           | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 142 | 132 | 124 | 102 | 84  | 75  | 67  |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 51  | 51  | 50  | 47  | 45  | 43  | 42  |
| 1250                           | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     |     |     | 132 | 117 |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     |     |     | 51  | 50  |
| 1500                           | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     |     |     |     | 150 |
|                                | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     |     |     |     | 54  |

Table 4. Supply air data for sizes between Ø355 - Ø550

| Flow Rate [m³ / h] |                           | D (Diameter) [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 355               | 370 | 380 | 385 | 390 | 400 | 440 | 450 | 460 | 480 | 490 | 500 | 510 | 540 | 550 |
| 250                | Pressure Drop [Pa]        | 4                 | 3   | 3   | 3   | 3   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 500                | Pressure Drop [Pa]        | 16                | 13  | 12  | 11  | 11  | 10  | 7   | 6   | 5   | 4   | 4   | 4   | 4   | 3   | 3   |
|                    | Sound Power Level [dB(A)] | 20                | 18  | 16  | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 750                | Pressure Drop [Pa]        | 36                | 30  | 27  | 26  | 24  | 22  | 15  | 14  | 13  | 11  | 10  | 9   | 8   | 7   | 6   |
|                    | Sound Power Level [dB(A)] | 32                | 30  | 29  | 28  | 27  | 26  | 21  | 20  | 19  | 16  | 15  | <15 | <15 | <15 | <15 |
| 1000               | Pressure Drop [Pa]        | 63                | 53  | 48  | 46  | 43  | 39  | 27  | 24  | 22  | 19  | 17  | 16  | 15  | 12  | 11  |
|                    | Sound Power Level [dB(A)] | 41                | 39  | 37  | 37  | 36  | 35  | 30  | 28  | 27  | 25  | 24  | 23  | 22  | 19  | 18  |
| 1250               | Pressure Drop [Pa]        | 98                | 83  | 75  | 71  | 67  | 61  | 42  | 38  | 35  | 29  | 27  | 25  | 23  | 18  | 17  |
|                    | Sound Power Level [dB(A)] | 48                | 45  | 44  | 43  | 43  | 41  | 36  | 35  | 34  | 32  | 31  | 30  | 29  | 26  | 25  |
| 1500               | Pressure Drop [Pa]        | 141               | 120 | 108 | 102 | 97  | 88  | 60  | 55  | 50  | 42  | 39  | 36  | 33  | 26  | 24  |
|                    | Sound Power Level [dB(A)] | 53                | 51  | 50  | 49  | 48  | 47  | 42  | 41  | 40  | 37  | 36  | 35  | 34  | 31  | 30  |
| 1750               | Pressure Drop [Pa]        |                   |     | 146 | 139 | 132 | 119 | 81  | 74  | 68  | 57  | 53  | 49  | 45  | 36  | 33  |
|                    | Sound Power Level [dB(A)] |                   |     | 54  | 54  | 53  | 52  | 47  | 45  | 44  | 42  | 41  | 40  | 39  | 36  | 35  |
| 2000               | Pressure Drop [Pa]        |                   |     |     |     |     |     | 106 | 97  | 89  | 75  | 69  | 64  | 59  | 47  | 43  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 51  | 49  | 48  | 46  | 45  | 44  | 43  | 40  | 39  |
| 2250               | Pressure Drop [Pa]        |                   |     |     |     |     |     | 134 | 123 | 112 | 95  | 87  | 80  | 74  | 59  | 55  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 54  | 53  | 52  | 50  | 49  | 48  | 47  | 44  | 43  |
| 2500               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 139 | 117 | 108 | 99  | 92  | 73  | 68  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 55  | 53  | 52  | 51  | 50  | 47  | 46  |
| 3000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     | 143 | 132 | 105 | 97  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     | 51  | 55  | 52  | 51  |
| 3500               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     |     |     | 142 | 132 |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     |     |     | 57  | 56  |

Table 5. Supply air data for sizes from Ø560 to Ø900

| Flow Rate [m³ / h] |                           | D (Diameter) [mm] |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 580               | 590 | 600 | 620 | 630 | 690 | 700 | 710 | 750 | 800 | 880 | 900 |
| 500                | Pressure Drop [Pa]        | 2                 | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 0   | 0   |     |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 750                | Pressure Drop [Pa]        | 5                 | 5   | 4   | 4   | 4   | 2   | 2   | 2   | 2   | 1   | 1   | 1   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 1000               | Pressure Drop [Pa]        | 9                 | 8   | 8   | 7   | 6   | 4   | 4   | 4   | 3   | 2   | 2   | 2   |
|                    | Sound Power Level [dB(A)] | 15                | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 1500               | Pressure Drop [Pa]        | 20                | 18  | 17  | 15  | 14  | 10  | 9   | 9   | 7   | 5   | 4   | 3   |
|                    | Sound Power Level [dB(A)] | 28                | 27  | 26  | 24  | 23  | 18  | 18  | 17  | <15 | <15 | <15 | <15 |
| 2000               | Pressure Drop [Pa]        | 35                | 33  | 31  | 27  | 25  | 18  | 17  | 16  | 13  | 10  | 7   | 6   |
|                    | Sound Power Level [dB(A)] | 36                | 35  | 34  | 33  | 32  | 27  | 26  | 26  | 23  | 19  | <15 | <15 |
| 2500               | Pressure Drop [Pa]        | 55                | 51  | 48  | 42  | 39  | 27  | 26  | 24  | 20  | 15  | 10  | 9   |
|                    | Sound Power Level [dB(A)] | 43                | 42  | 41  | 40  | 39  | 34  | 33  | 32  | 30  | 26  | 21  | 20  |
| 3000               | Pressure Drop [Pa]        | 79                | 74  | 69  | 60  | 57  | 39  | 37  | 35  | 28  | 22  | 15  | 14  |
|                    | Sound Power Level [dB(A)] | 49                | 48  | 47  | 45  | 44  | 39  | 39  | 38  | 35  | 32  | 27  | 26  |
| 3500               | Pressure Drop [Pa]        | 107               | 100 | 93  | 82  | 77  | 53  | 50  | 48  | 38  | 30  | 20  | 18  |
|                    | Sound Power Level [dB(A)] | 53                | 52  | 51  | 50  | 49  | 44  | 43  | 43  | 40  | 36  | 31  | 30  |
| 4000               | Pressure Drop [Pa]        | 140               | 130 | 122 | 107 | 100 | 70  | 66  | 62  | 50  | 39  | 26  | 24  |
|                    | Sound Power Level [dB(A)] | 57                | 56  | 55  | 54  | 53  | 48  | 47  | 47  | 44  | 40  | 35  | 34  |
| 4500               | Pressure Drop [Pa]        |                   |     |     | 135 | 127 | 88  | 83  | 79  | 63  | 49  | 33  | 30  |
|                    | Sound Power Level [dB(A)] |                   |     |     | 57  | 57  | 52  | 51  | 50  | 47  | 44  | 39  | 38  |
| 5000               | Pressure Drop [Pa]        |                   |     |     |     |     | 109 | 103 | 97  | 78  | 60  | 41  | 38  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 55  | 54  | 53  | 51  | 47  | 42  | 41  |
| 6000               | Pressure Drop [Pa]        |                   |     |     |     |     |     | 147 | 139 | 112 | 86  | 59  | 54  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 60  | 59  | 56  | 53  | 48  | 47  |
| 7000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     | 117 | 80  | 73  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     | 57  | 52  | 51  |
| 8000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     | 105 | 96  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     | 56  | 55  |
| 9000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     | 132 | 121 |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     | 60  | 59  |
| 10000              | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     | 149 |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     | 62  |

## EXHAUST AIR DATA

Table 6. Exhaust air data for sizes from Ø65 to Ø200

| Flow Rate [m³ / h] |                           | D [Diameter] [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 65                | 95  | 100 | 115 | 125 | 140 | 150 | 155 | 160 | 170 | 180 | 185 | 190 | 195 | 200 |
| 50                 | Pressure Drop [Pa]        | 105               | 22  | 17  | 10  | 7   | 4   | 3   | 3   | 2   | 2   | 1   | 1   | 1   | 1   | 1   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 100                | Pressure Drop [Pa]        | 91                | 73  | 41  | 29  | 18  | 13  | 12  | 10  | 8   | 6   | 6   | 5   | 5   | 4   |     |
|                    | Sound Power Level [dB(A)] | 36                | 34  | 26  | 21  | 15  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 125                | Pressure Drop [Pa]        | 144               | 116 | 65  | 46  | 29  | 21  | 19  | 16  | 13  | 10  | 9   | 8   | 7   | 6   |     |
|                    | Sound Power Level [dB(A)] | 43                | 40  | 33  | 28  | 22  | 19  | 17  | 15  | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 150                | Pressure Drop [Pa]        |                   |     |     | 95  | 67  | 42  | 31  | 27  | 24  | 19  | 15  | 13  | 12  | 10  | 9   |
|                    | Sound Power Level [dB(A)] |                   |     |     | 39  | 34  | 28  | 24  | 23  | 21  | 18  | <15 | <15 | <15 | <15 | <15 |
| 175                | Pressure Drop [Pa]        |                   |     |     | 130 | 92  | 57  | 43  | 38  | 33  | 26  | 20  | 18  | 16  | 14  | 13  |
|                    | Sound Power Level [dB(A)] |                   |     |     | 43  | 39  | 33  | 29  | 27  | 26  | 22  | 19  | 18  | 16  | <15 | <15 |
| 200                | Pressure Drop [Pa]        |                   |     |     |     | 121 | 76  | 57  | 50  | 43  | 34  | 27  | 24  | 21  | 19  | 17  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     | 43  | 37  | 33  | 31  | 30  | 27  | 23  | 22  | 20  | 19  | 18  |
| 225                | Pressure Drop [Pa]        |                   |     |     |     |     | 97  | 72  | 63  | 55  | 43  | 34  | 30  | 27  | 24  | 22  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 41  | 37  | 35  | 33  | 30  | 27  | 26  | 24  | 23  | 21  |
| 250                | Pressure Drop [Pa]        |                   |     |     |     |     | 120 | 90  | 79  | 69  | 54  | 42  | 38  | 34  | 30  | 27  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 44  | 40  | 38  | 37  | 33  | 30  | 29  | 27  | 26  | 25  |
| 300                | Pressure Drop [Pa]        |                   |     |     |     |     |     | 132 | 115 | 101 | 78  | 62  | 55  | 49  | 44  | 40  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 46  | 44  | 42  | 39  | 36  | 35  | 33  | 32  | 30  |
| 350                | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 139 | 108 | 85  | 76  | 68  | 61  | 55  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 47  | 44  | 41  | 39  | 38  | 37  | 35  |
| 400                | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     | 142 | 112 | 100 | 89  | 80  | 72  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     | 48  | 45  | 44  | 42  | 41  | 39  |
| 450                | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     | 143 | 127 | 114 | 102 | 92  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     | 49  | 47  | 46  | 44  | 43  |

Table 7. Exhaust air data for sizes from Ø210 to Ø350

| Flow Rate [m3 / h] |                           | D [Diameter] [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 210               | 225 | 240 | 245 | 250 | 260 | 270 | 280 | 290 | 295 | 300 | 315 | 330 | 340 | 350 |     |
| 100                | Pressure Drop [Pa]        | 3                 | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0   |     |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 200                | Pressure Drop [Pa]        | 14                | 10  | 8   | 7   | 7   | 6   | 5   | 4   | 4   | 3   | 3   | 3   | 2   | 2   | 2   |     |
|                    | Sound Power Level [dB(A)] | 15                | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 300                | Pressure Drop [Pa]        | 32                | 24  | 19  | 17  | 16  | 13  | 11  | 10  | 8   | 8   | 7   | 6   | 5   | 4   | 4   |     |
|                    | Sound Power Level [dB(A)] | 28                | 24  | 21  | 19  | 18  | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |     |
| 400                | Pressure Drop [Pa]        | 59                | 44  | 34  | 31  | 28  | 24  | 21  | 18  | 15  | 14  | 13  | 11  | 9   | 8   | 7   |     |
|                    | Sound Power Level [dB(A)] | 37                | 33  | 30  | 28  | 27  | 25  | 23  | 21  | 19  | 18  | 17  | <15 | <15 | <15 | <15 |     |
| 500                | Pressure Drop [Pa]        | 93                | 70  | 54  | 49  | 45  | 38  | 33  | 28  | 24  | 23  | 21  | 17  | 14  | 13  | 11  |     |
|                    | Sound Power Level [dB(A)] | 44                | 40  | 36  | 35  | 34  | 32  | 30  | 28  | 26  | 25  | 24  | 22  | 19  | 18  | 16  |     |
| 600                | Pressure Drop [Pa]        | 136               | 102 | 78  | 72  | 66  | 56  | 48  | 41  | 35  | 33  | 31  | 25  | 21  | 18  | 16  |     |
|                    | Sound Power Level [dB(A)] | 49                | 46  | 42  | 41  | 40  | 38  | 36  | 34  | 32  | 31  | 30  | 27  | 25  | 23  | 22  |     |
| 700                | Pressure Drop [Pa]        |                   | 141 | 108 | 99  | 91  | 77  | 66  | 57  | 49  | 45  | 42  | 35  | 29  | 25  | 22  |     |
|                    | Sound Power Level [dB(A)] |                   | 50  | 47  | 46  | 45  | 43  | 41  | 39  | 37  | 36  | 35  | 32  | 30  | 28  | 27  |     |
| 800                | Pressure Drop [Pa]        |                   |     | 142 | 130 | 120 | 102 | 87  | 75  | 64  | 60  | 56  | 46  | 38  | 33  | 29  |     |
|                    | Sound Power Level [dB(A)] |                   |     | 51  | 50  | 49  | 47  | 45  | 43  | 41  | 40  | 39  | 36  | 34  | 32  | 31  |     |
| 900                | Pressure Drop [Pa]        |                   |     |     |     |     | 130 | 111 | 95  | 82  | 77  | 71  | 58  | 48  | 42  | 38  |     |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 50  | 48  | 46  | 45  | 44  | 43  | 40  | 38  | 36  | 34  |     |
| 1000               | Pressure Drop [Pa]        |                   |     |     |     |     |     | 138 | 119 | 102 | 95  | 89  | 73  | 60  | 53  | 47  |     |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 52  | 50  | 48  | 47  | 46  | 43  | 41  | 39  | 38  |     |
| 1250               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     | 141 | 115 | 95  | 84  | 74  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     | 53  | 50  | 48  | 46  | 45  |
| 1500               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     |     |     | 139 | 122 | 108 |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     |     |     | 54  | 52  | 50  |

Table 8. Exhaust air data for sizes Ø355 - Ø550

| Flow Rate [m³ / h] |                           | D (Diameter) [mm] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 355               | 370 | 380 | 385 | 390 | 400 | 440 | 450 | 460 | 480 | 490 | 500 | 510 | 540 | 550 |
| 250                | Pressure Drop [Pa]        | 2                 | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 500                | Pressure Drop [Pa]        | 10                | 9   | 8   | 7   | 7   | 6   | 4   | 4   | 4   | 3   | 3   | 3   | 2   | 2   | 2   |
|                    | Sound Power Level [dB(A)] | 15                | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 750                | Pressure Drop [Pa]        | 24                | 20  | 18  | 17  | 16  | 15  | 10  | 9   | 8   | 7   | 6   | 6   | 5   | 4   | 4   |
|                    | Sound Power Level [dB(A)] | 28                | 26  | 24  | 24  | 23  | 22  | 16  | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 1000               | Pressure Drop [Pa]        | 44                | 37  | 33  | 31  | 30  | 27  | 18  | 16  | 15  | 13  | 11  | 11  | 10  | 8   | 7   |
|                    | Sound Power Level [dB(A)] | 37                | 35  | 33  | 33  | 32  | 31  | 25  | 24  | 23  | 21  | 20  | 18  | 17  | <15 | <15 |
| 1250               | Pressure Drop [Pa]        | 70                | 59  | 53  | 50  | 47  | 43  | 29  | 26  | 24  | 20  | 18  | 17  | 15  | 12  | 11  |
|                    | Sound Power Level [dB(A)] | 44                | 42  | 40  | 40  | 39  | 37  | 32  | 31  | 30  | 28  | 27  | 25  | 24  | 21  | 20  |
| 1500               | Pressure Drop [Pa]        | 102               | 86  | 77  | 73  | 69  | 62  | 42  | 38  | 35  | 29  | 27  | 24  | 23  | 18  | 16  |
|                    | Sound Power Level [dB(A)] | 50                | 47  | 46  | 45  | 45  | 43  | 38  | 37  | 36  | 33  | 32  | 31  | 30  | 27  | 26  |
| 1750               | Pressure Drop [Pa]        | 141               | 118 | 106 | 100 | 95  | 86  | 57  | 52  | 48  | 40  | 37  | 34  | 31  | 24  | 23  |
|                    | Sound Power Level [dB(A)] | 54                | 52  | 51  | 50  | 49  | 48  | 43  | 42  | 40  | 38  | 37  | 36  | 35  | 32  | 31  |
| 2000               | Pressure Drop [Pa]        |                   |     | 140 | 132 | 125 | 113 | 76  | 69  | 63  | 53  | 48  | 44  | 41  | 32  | 30  |
|                    | Sound Power Level [dB(A)] |                   |     | 55  | 54  | 54  | 52  | 47  | 46  | 45  | 42  | 41  | 40  | 39  | 36  | 35  |
| 2250               | Pressure Drop [Pa]        |                   |     |     |     |     | 144 | 97  | 88  | 80  | 67  | 62  | 57  | 52  | 41  | 38  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 56  | 51  | 49  | 48  | 46  | 45  | 44  | 43  | 40  | 39  |
| 2500               | Pressure Drop [Pa]        |                   |     |     |     |     | 120 | 110 | 100 | 84  | 77  | 71  | 65  | 51  | 47  | 47  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 54  | 53  | 52  | 49  | 48  | 47  | 46  | 43  | 42  | 42  |
| 3000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 146 | 122 | 112 | 103 | 95  | 75  | 69  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 57  | 55  | 54  | 53  | 52  | 49  | 48  |
| 3500               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     |     | 142 | 131 | 103 | 95  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     |     | 58  | 56  | 53  | 52  |

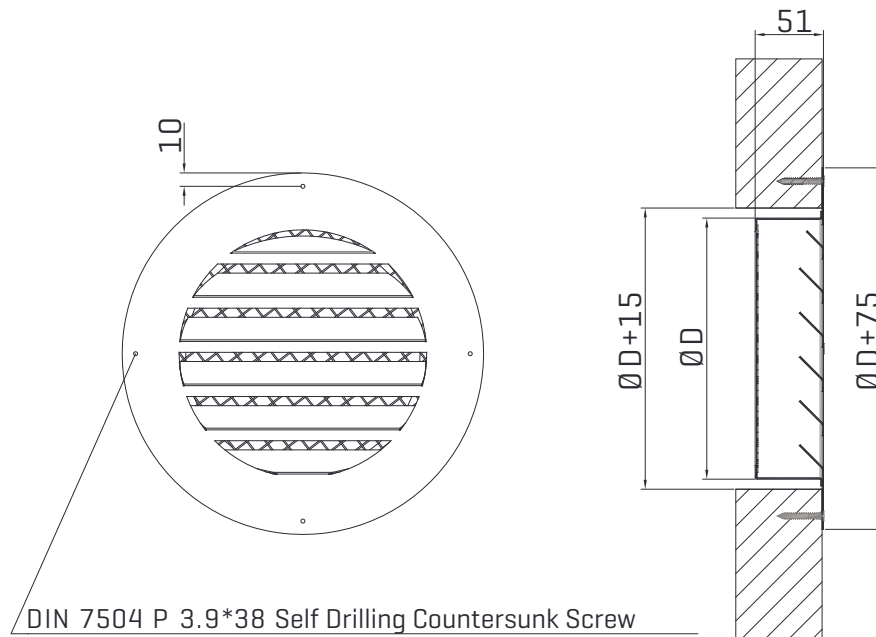
Table 9. Exhaust air data for sizes from Ø560 to Ø900

| Flow Rate [m³ / h] |                           | D (Diameter) [mm] |     |     |     |     |     |     |     |     |     |     |     |
|--------------------|---------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    |                           | 580               | 590 | 600 | 620 | 630 | 690 | 700 | 710 | 750 | 800 | 880 | 900 |
| 500                | Pressure Drop [Pa]        | 1                 | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 750                | Pressure Drop [Pa]        | 3                 | 3   | 3   | 2   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 1000               | Pressure Drop [Pa]        | 6                 | 5   | 5   | 4   | 4   | 3   | 3   | 2   | 2   | 1   | 1   | 1   |
|                    | Sound Power Level [dB(A)] | <15               | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 1500               | Pressure Drop [Pa]        | 13                | 12  | 11  | 10  | 9   | 6   | 6   | 6   | 5   | 3   | 2   | 2   |
|                    | Sound Power Level [dB(A)] | 23                | 22  | 21  | 20  | 19  | <15 | <15 | <15 | <15 | <15 | <15 | <15 |
| 2000               | Pressure Drop [Pa]        | 24                | 22  | 21  | 18  | 17  | 12  | 11  | 10  | 8   | 6   | 4   | 4   |
|                    | Sound Power Level [dB(A)] | 32                | 31  | 30  | 28  | 28  | 23  | 22  | 21  | 18  | <15 | <15 | <15 |
| 2500               | Pressure Drop [Pa]        | 38                | 35  | 33  | 29  | 27  | 18  | 17  | 16  | 13  | 10  | 7   | 6   |
|                    | Sound Power Level [dB(A)] | 39                | 38  | 37  | 35  | 35  | 30  | 29  | 28  | 25  | 22  | 17  | 15  |
| 3000               | Pressure Drop [Pa]        | 56                | 52  | 48  | 42  | 39  | 27  | 25  | 24  | 19  | 15  | 10  | 9   |
|                    | Sound Power Level [dB(A)] | 45                | 44  | 43  | 41  | 40  | 35  | 35  | 34  | 31  | 27  | 22  | 21  |
| 3500               | Pressure Drop [Pa]        | 76                | 71  | 66  | 58  | 54  | 37  | 35  | 33  | 26  | 20  | 13  | 12  |
|                    | Sound Power Level [dB(A)] | 50                | 49  | 48  | 46  | 45  | 40  | 39  | 39  | 36  | 32  | 27  | 26  |
| 4000               | Pressure Drop [Pa]        | 101               | 94  | 88  | 76  | 71  | 49  | 46  | 43  | 35  | 26  | 18  | 16  |
|                    | Sound Power Level [dB(A)] | 54                | 53  | 52  | 50  | 49  | 44  | 44  | 43  | 40  | 36  | 31  | 30  |
| 4500               | Pressure Drop [Pa]        | 129               | 120 | 112 | 98  | 91  | 62  | 59  | 55  | 44  | 34  | 23  | 21  |
|                    | Sound Power Level [dB(A)] | 57                | 56  | 56  | 54  | 53  | 48  | 47  | 46  | 44  | 40  | 35  | 34  |
| 5000               | Pressure Drop [Pa]        |                   | 149 | 139 | 121 | 114 | 78  | 73  | 69  | 55  | 42  | 28  | 26  |
|                    | Sound Power Level [dB(A)] |                   | 60  | 59  | 57  | 56  | 51  | 51  | 50  | 47  | 43  | 38  | 37  |
| 6000               | Pressure Drop [Pa]        |                   |     |     |     |     | 113 | 107 | 101 | 80  | 61  | 41  | 37  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     | 57  | 56  | 55  | 52  | 49  | 44  | 43  |
| 7000               | Pressure Drop [Pa]        |                   |     |     |     |     |     | 147 | 139 | 110 | 84  | 57  | 52  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     | 61  | 60  | 57  | 54  | 49  | 47  |
| 8000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     | 145 | 111 | 75  | 68  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     | 61  | 58  | 53  | 52  |
| 9000               | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     | 142 | 95  | 87  |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     | 62  | 57  | 55  |
| 10000              | Pressure Drop [Pa]        |                   |     |     |     |     |     |     |     |     |     | 119 | 108 |
|                    | Sound Power Level [dB(A)] |                   |     |     |     |     |     |     |     |     |     | 60  | 59  |



## INSTALLATION

### SCREW SYSTEM



## PRODUCT SELECTION

**Example:** In case the flow rate of the air to be exhausted is 1000 m<sup>3</sup>/h, the pressure drop created by the circular external louvre should be less than 30 Pa and the sound pressure level should be less than 36 dB [A].

Choose the circular external louvre.

**Solution:** The diameters that provide 1000 m<sup>3</sup>/h air flow are checked from the tables under the exhaust air data heading. In Table 7, the pressure drop is 30 Pa and the sound pressure level is 32 dB [A] for the diameter size Ø390 mm. Accordingly, the product selection is made as the appropriate size Ø390 mm.

## PRODUCT ORDER CODES

You can place your orders according to the following coding format.

**DPC.<A>.<B>.<C>.<D>.<E>**

| <b>A</b> | <b>Raw Material Type</b>  |                             |
|----------|---------------------------|-----------------------------|
|          | GAL                       | Galvanized                  |
| <b>B</b> | <b>Mounting Type</b>      |                             |
|          | VD                        | Screw System                |
|          | MD                        | Without Mounting Hole       |
| <b>C</b> | <b>Accessory</b>          |                             |
|          | 00                        | Without Accessories         |
|          | 10                        | 10x10 Wire                  |
| <b>D</b> | <b>Diameter (ØD) [mm]</b> |                             |
|          | 000                       | View from Standard Sizes    |
| <b>E</b> | <b>Paint</b>              |                             |
|          | 00                        | Unpainted                   |
|          | S1                        | Standard Painted - RAL 9010 |
|          | S2                        | Standard Painted - RAL 9016 |
|          | XX                        | Special Painted             |

**Sample Coding;** DPC.GAL.VD.10.315.S1

## NOTES





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