

WPD

ROOF EXHAUST HOODS



Intended use:

WPD roof exhaust hoods are used on the exhaust duct ends in ventilation systems.

C Type WPD Roof Exhaust Hoods

Design

C type WPD roof exhaust hoods are fitted with round flange connections, nipple or muff, adjusted to standardized diameters of circular ducts. On customer request, we can make the holes for screws in the flange connections, according to the individual guidelines. The flange connections are initially secured with anti-corrosive paint (for re-painting after assembly). C type WPD units are normally made of zinc-plated steel with the average thickness of the zinc coating equal to 19 micrometers. Other RAL colour powder coating and a stainless steel version is available on special request.

Hydraulic Resistance

In order to calculate hydraulic resistance of the system equipped with C type WPD unit it is necessary to assume the coefficient of resistance $\zeta = 1.3$.

Dimensions

The standard dimensions of C type WPD roof exhaust hoods are presented below. It is possible to make an unit in a different size on request.

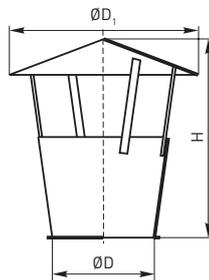


Figure 1. WPDC roof exhaust hood dimensions.

Table 1. WPDC roof exhaust hood dimensions.

| ØD [mm] | ØD ₁ [mm] | H [mm] | Weight [kg] |
|---------|----------------------|--------|-------------|
| 200 | 400 | 340 | 4,1 |
| 250 | 500 | 425 | 5,6 |
| 315 | 630 | 535 | 8 |
| 400 | 800 | 680 | 11,9 |
| 500 | 1000 | 850 | 22,3 |
| 630 | 1260 | 1070 | 33,4 |

WPDC – Roof exhaust hoods

When ordering, please provide information in accordance with the following pattern:

For a standard unit

WPDC - o<D> - <J> - <P> <RAL>

For a custom unit

WPDC - o<D> - <J> - (<H>) - <P> <RAL>

Where:

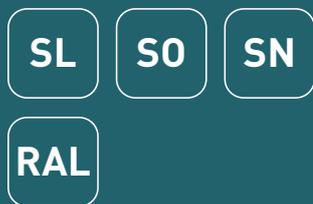
| | |
|------------|---|
| D | nominal diameter in mm |
| J | connection type |
| | PSK - flange connection (for diameters $D \leq 315$ mm) |
| | KTW - flange connection made of angle iron (for diameters $355 \leq D \leq 1,000$) |
| | NPL - nipple connection (for diameters $D \leq 315$ mm) |
| | MFA - muff connection (for diameters $D \leq 315$ mm) |
| H | exhaust hood height in mm |
| P | finish* |
| | SL - powder coated steel |
| | SO - galvanized steel |
| | SN - stainless steel, 1.4301 (304 according to AISI, 0H18N9 according to PN) |
| RAL | colour as per RAL code (for SL finishing) |

* optional values – if not specified, the default values will be used

Order example:

WPDC-o250-PSK-SO (for a custom unit)

WPDC-o250-MFA-(600)-SN (for a custom unit)



E Type WPD Roof Exhaust Hoods

Design

E type WPD roof exhaust hoods are designed for vertical air throw. They are fitted with round flange connections, nipple or muff, adjusted to standardized diameters of circular ducts. On customer request, we can make the holes for screws in the flange connections, according to the individual guidelines. The flange connections are initially secured with anti-corrosive paint (for re-painting after assembly). E type WPD units are normally made of zinc-plated steel with the average thickness of the zinc coating equal to 19 micrometers. Other RAL colour powder coating and a stainless steel version is available on special request.

Hydraulic Resistance

In order to calculate the hydraulic resistance of the system equipped with E type WPD unit it is necessary to assume the coefficient of local resistance $\zeta = 1.35$.

Dimensions

The standard dimensions of E type WPD roof exhaust hoods are presented below. It is possible to make a hood of different size on request.

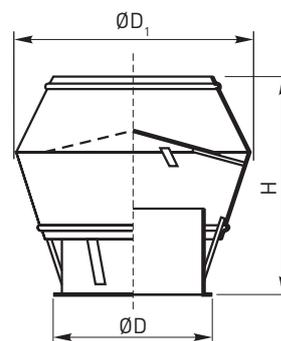


Figure 2. WPDE roof exhaust hood dimensions.

Table 2. WPDE roof exhaust hood dimensions.

| ØD [mm] | ØD ₁ [mm] | H [mm] | Masa [kg] |
|---------|----------------------|--------|-----------|
| 200 | 360 | 375 | 5,2 |
| 250 | 450 | 430 | 7,1 |
| 315 | 570 | 500 | 9,9 |
| 400 | 720 | 600 | 14,8 |
| 500 | 900 | 715 | 26,7 |
| 630 | 1135 | 1000 | 35,8 |

WPDE – Roof exhaust hoods

When ordering, please provide information in accordance with the following pattern:

For a standard unit

WPDE - o<D> - <J> - <P> <RAL>

For a custom unit

WPDE - o<D> - <J> - (<H>) - <P> <RAL>

Where:

| | | | |
|----------|---|------------|--|
| D | nominal diameter in mm | H | exhaust hood height in mm |
| J | connection type | P | finish* |
| | PSK - flange connection (for diameters $D \leq 315$ mm) | | SL - powder coated steel |
| | KTW - flange connection made of angle iron (for diameters $355 < D < 1,000$) | | SO - galvanized steel |
| | NPL - nipple connection (for diameters $D \leq 315$ mm) | | SN - stainless steel, 1.4301 (304 according to AISI, 0H18N9 according to PN) |
| | MFA - muff connection (for diameters $D \leq 315$ mm) | RAL | colour as per RAL (for SL finishing) |

* optional values, if not specified, the default values will be used

Order example: **WPDE-o250-PSK-SO** (for a standard unit)

WPDE-o250-MFA-(600)-SN (for a custom unit)