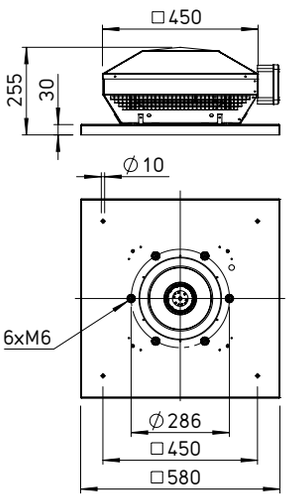
## Horiz. outlet RD 250

Also available in version:

## Vert. outlet VD 250

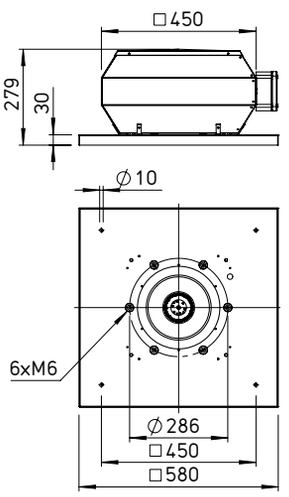
Also available in version:

## Dimensions RD 250




Dim. in mm

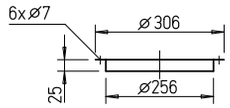
## Dimensions VD 250



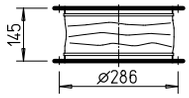

Dim. in mm

## Dimensions Accessories for RD / VD 250

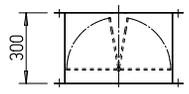
**Counter flange**
**FR 250** Ref. no. 01203



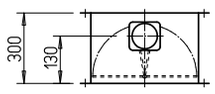

**Flanged flexible connector**
**STS 250** Ref. no. 01220
For explosion-proof fans
**STS 250 Ex** Ref. no. 02501



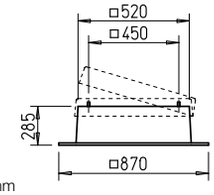

**Shutter, automatic**
**RVS 250** Ref. no. 02592



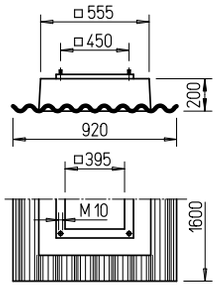

**Shutter, motorised**
**RVM 250** Ref. no. 02576



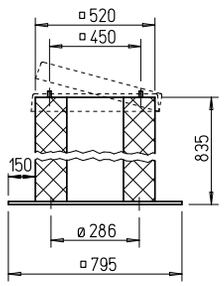

**Flat roof base, hinged**
**FDS 250** Ref. no. 01379




**Corrugated roof base, profile 5**
**WDS 250** Ref. no. 01561




**Base silencer, hinged**
**SSD 250** Ref. no. 05292




Dim. in mm

## Description RD

Horizontal outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

## Description VD

Vertical outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

## Description of all series

**Casing**
Casing made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel (explosion-proof version inlet nozzle made of aluminium). Base plate with threaded screws for attachment of inlet-side accessories (hole pattern according to DIN 24155).

**Impeller**
High-performance centrifugal impeller with backward curved blades made of galvanised steel sheet (explosion-proof version made of aluminium). Dynamically balanced according to DIN ISO 21940-11 – quality grade 6.3.

**Drive**
Speed-controllable external rotor motor in closed design (IP44). Ball bearing mounted with moisture protection. Maintenance-free and radio interference-free.

**Motor protection**
Through built-in thermal contacts which are wired in series to the winding and automatically deactivate and reactivate after cooling when the motor temperature is too high. Explosion-proof version with thermal motor protection through built-in PTC thermistors.

**Electrical connection**
To external terminal box in protection category IP65. Isolator switch is optionally available (see Accessories).

**Protection grille**
On the outlet side as standard according to DIN EN ISO 13857.

**Power control**
All types have continuously variable speed control in the range from 0 – 100 % through electronic speed controllers (except for explosion-proof version) or five-step control units. Assignment see type table.

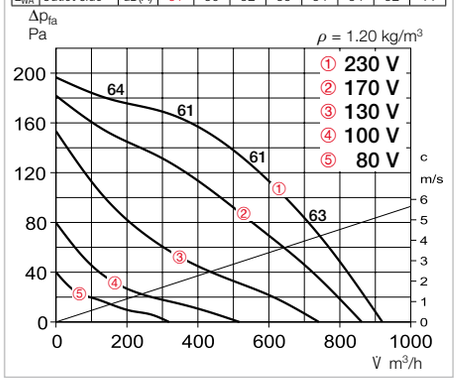
**Delivery**
Units are ready-for-connection, fully pre-assembled in the shipping box.

**Noise**
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

The horizontally case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

## Performance curves RDW 250/4

| Frequency | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ Inlet side | dB(A) | 58 | 46 | 48 | 52 | 52 | 50 | 50 | 41 |
| $L_{WA}$ Outlet side | dB(A) | 61 | 50 | 52 | 55 | 54 | 54 | 52 | 44 |

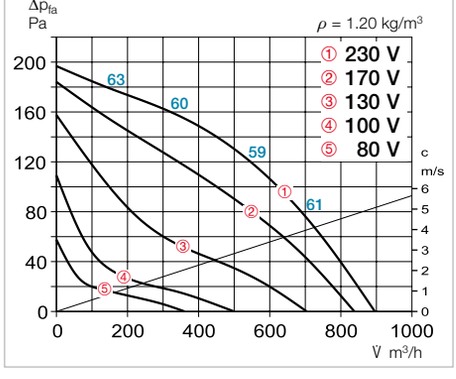



| Type | Ref. no. | Speed | Flow rate Free blowing | Noise sound pressure | Power consump. | Current consump. at rated voltage | Current consump. with control | Wiring diagram | Max. air flow temp. at rated voltage | Max. air flow temp. with control | Weight net | Motor protection circuit breaker Type | Motor protection circuit breaker Ref. no. | Speed controller 5-step Type | Speed controller 5-step Ref. no. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | min⁻¹ | m³/h | dB(A) in 4 m | W | A | A | No. | °C | °C | kg | | | | |
| **Single phase alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP44** | | | | | | | | | | | | | | | |
| **RDW 250/4** | 07264 | 1340 | 920 | 44 | 63 | 0.28 | 0.28 | 923 | 70 | 70 | 11.5 | — | — | **TSW 1.5** | 01495 |
| Ex **Explosion-proof, II 3G Ex h IIB + $H_2$ T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44** | | | | | | | | | | | | | | | |
| **RDD 250/4 Ex**[1] | 07273 | 1400 | 1350 | 46 | 130 | 0.38 | 0.38 | 1156 | 40 | 40 | 12.0 | **MSA** | 01289 | **TSD 0.8** | 01500 |

1) Performance diagram at www.HeliosSelect.de.

## Performance curves VDW 250/4

| Frequency | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ Inlet side | dB(A) | 58 | 40 | 49 | 51 | 52 | 51 | 51 | 39 |
| $L_{WA}$ Outlet side | dB(A) | 60 | 47 | 52 | 54 | 53 | 52 | 52 | 44 |




| Type | Ref. no. | Speed | Flow rate Free blowing | Noise sound pressure | Power consump. | Current consump. at rated voltage | Current consump. with control | Wiring diagram | Max. air flow temp. at rated voltage | Max. air flow temp. with control | Weight net | Motor protection circuit breaker Type | Motor protection circuit breaker Ref. no. | Speed controller 5-step Type | Speed controller 5-step Ref. no. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | min⁻¹ | m³/h | dB(A) in 4 m | W | A | A | No. | °C | °C | kg | | | | |
| **Single phase alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP44** | | | | | | | | | | | | | | | |
| **VDW 250/4** | 07244 | 1340 | 900 | 43 | 63 | 0.28 | 0.28 | 923 | 70 | 70 | 11.5 | — | — | **TSW 1.5** | 01495 |
| Ex **Explosion-proof, II 3G Ex h IIB + $H_2$ T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44** | | | | | | | | | | | | | | | |
| **VDD 250/4 Ex**[1] | 07265 | 1400 | 1280 | 45 | 120 | 0.37 | 0.37 | 1156 | 40 | 40 | 12.5 | **MSA** | 01289 | **TSD 0.8** | 01500 |

1) Performance diagram at www.HeliosSelect.de.