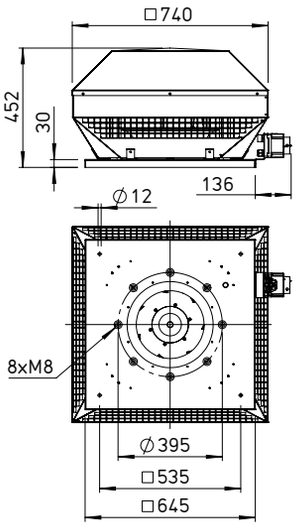
## Horiz. outlet RD EC 355



## Verti. outlet VD EC 355

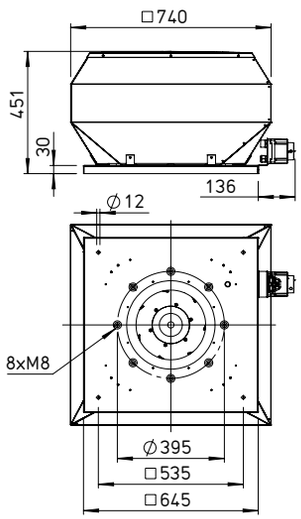


## Dimensions RD EC 355




Dim. in mm

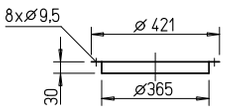
## Dimensions VD EC 355



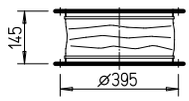

Dim. in mm

## Dimensions Accessories for RD EC 355 / VD EC 355

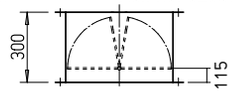
**Counter flange**
**FR 355** Ref. no. 01205



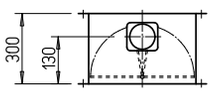

**Flanged flexible connector**
**STS 355** Ref. no. 01222



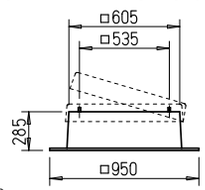

**Shutter, automatic**
**RVS 355** Ref. no. 02595



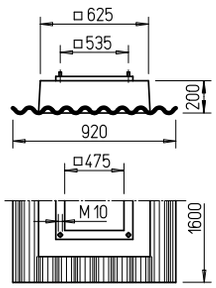

**Shutter, motorised**
**RVM 355** Ref. no. 02579



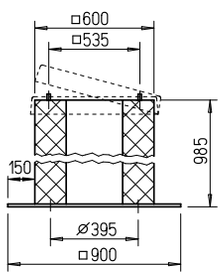

**Flat roof base, hinged**
**FDS 355** Ref. no. 01380



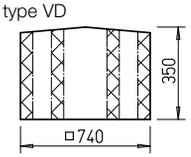

**Corrugated roof base, profile 5**
**WDS 355** Ref. no. 01562




**Base silencer, hinged**
**SSD 355** Ref. no. 05024




**Hood silencer**
**HSDV 355** Ref. no. 07480
only for type VD




Dim. in mm

## Description RD EC

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

## Description VD EC

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

## Common features RD EC and VD EC

**Casing**
Made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel. 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 plastic. Dynamically balanced according to DIN ISO 21940-11 – quality grade 6.3.

**Drive**
Energy-saving, speed-controllable EC external rotor motor with a high level of efficiency. Maintenance-free and ball bearing mounted.

**Motor protection**
Integrated electronic temperature monitoring system for EC motor and electronics.

**Electrical connection**
ND 315 – 630 to external terminal box and isolator in protection category IP65.

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

**Power control**
Continuously variable speed control via internal (delivery) or external potentiometer or continuously variable speed control with universal control system.

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

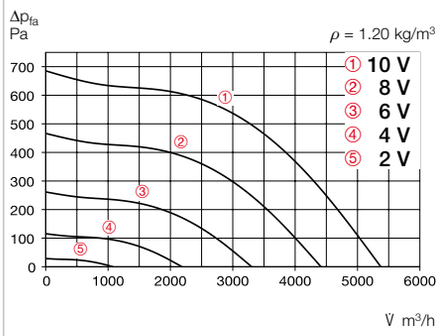
**Noise**
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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

| References | Page |
|---|---|
| Planning information | 14 ff. |
| Technical description | 501 f. |
| Selection table | 503 f. |
| Accessories, details | 560 f. |
| Universal control systems, electronic controllers, speed potentiometer | 615 ff. |

## Performance curves RDW EC 355

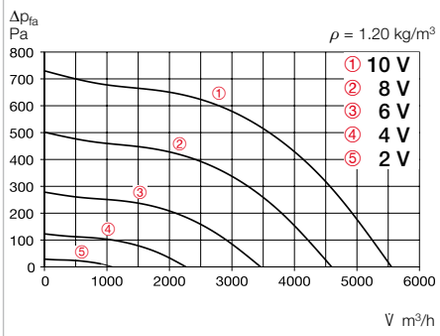
| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Inlet side | dB(A) | 70 | 60 | 65 | 64 | 62 | 60 | 57 | 52 |
| $L_{WA}$ | Outlet side | dB(A) | 76 | 67 | 70 | 70 | 70 | 66 | 57 | 51 |




| Free blowing | | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 1700 | 5400 | 580 | 2.50 | 59 | 0.39 |
| 8 | 1400 | 4420 | 330 | 1.50 | 55 | 0.27 |
| 6 | 1050 | 3320 | 150 | 0.75 | 49 | 0.16 |
| 4 | 670 | 2170 | 60 | 0.45 | 40 | 0.10 |

## Performance curves RDD EC 355

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Inlet side | dB(A) | 72 | 62 | 67 | 66 | 64 | 62 | 59 | 54 |
| $L_{WA}$ | Outlet side | dB(A) | 77 | 68 | 71 | 71 | 71 | 67 | 58 | 52 |

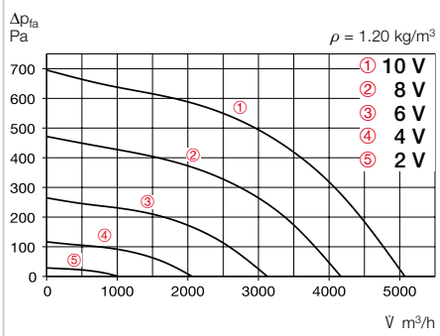



| Free blowing | | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 1750 | 5340 | 670 | 1.20 | 60 | 0.45 |
| 8 | 1450 | 4420 | 410 | 0.75 | 56 | 0.33 |
| 6 | 1060 | 3200 | 175 | 0.35 | 50 | 0.20 |
| 4 | 670 | 2000 | 60 | 0.15 | 41 | 0.11 |

| **Type** | Ref. no. | Speed | Flow rate Free blowing | Noise sound pressure | Power consumption | Current consump. at rated voltage | Current consump. with control | Wiring diagram | Max. air flow temp. at rated voltage | Max. air flow temp. with control | Wgt net | Speed potentiometer Flush-mounted **Type** | Ref. no. | Speed potentiometer Surf.-mounted **Type** | 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, EC motor, protection category IP55** | | | | | | | | | | | | | | | |
| **RDW EC 355** | 07333 | 1700 | 5400 | 58.5 | 810 | 3.47 | 3.47 | 1147 | 50 | – | 26.5 | **PU 24** | 01736 | **PA 24** | 01737 |
| **Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55** | | | | | | | | | | | | | | | |
| **RDD EC 355** | 07335 | 1750 | 5558 | 59.5 | 870 | 1.6 | 1.49 | 1148 | 60 | – | 28.5 | **PU 24** | 01736 | **PA 24** | 01737 |

## Performance curves VDW EC 355

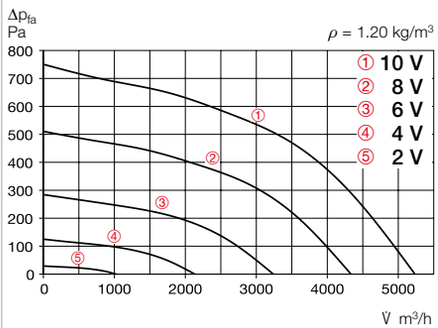
| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Inlet side | dB(A) | 70 | 60 | 65 | 64 | 62 | 60 | 57 | 52 |
| $L_{WA}$ | Outlet side | dB(A) | 75 | 65 | 69 | 69 | 69 | 66 | 57 | 53 |




| Free blowing | | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 1700 | 5080 | 590 | 2.50 | 58 | 0.42 |
| 8 | 1400 | 4180 | 335 | 1.50 | 54 | 0.29 |
| 6 | 1050 | 3130 | 155 | 0.80 | 48 | 0.18 |
| 4 | 700 | 2070 | 60 | 0.50 | 40 | 0.10 |

## Performance curves VDD EC 355

| Frequency | | Hz | Tot. | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|---|
| $L_{WA}$ | Inlet side | dB(A) | 71 | 61 | 66 | 65 | 63 | 61 | 58 | 53 |
| $L_{WA}$ | Outlet side | dB(A) | 76 | 67 | 70 | 70 | 70 | 66 | 58 | 52 |




| Free blowing | | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** V | **n** min⁻¹ | **V̇** m³/h | **P** W | **I** A | **Lp** dB(A) | **SFP** kW/m³/s |
| 10 | 1750 | 5030 | 650 | 1.20 | 59 | 0.47 |
| 8 | 1460 | 4180 | 390 | 0.75 | 55 | 0.34 |
| 6 | 1070 | 3040 | 170 | 0.35 | 49 | 0.20 |
| 4 | 667 | 1900 | 60 | 0.15 | 39 | 0.11 |

| **Type** | Ref. no. | Speed | Flow rate Free blowing | Noise sound pressure | Power consumption | Current consump. at rated voltage | Current consump. with control | Wiring diagram | Max. air flow temp. at rated voltage | Max. air flow temp. with control | Wgt net | Speed potentiometer Flush-mounted **Type** | Ref. no. | Speed potentiometer Surf.-mounted **Type** | 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, EC motor, protection category IP55** | | | | | | | | | | | | | | | |
| **VDW EC 355** | 07331 | 1700 | 5080 | 58 | 800 | 3.45 | 3.45 | 1147 | 50 | – | 27 | **PU 24** | 01736 | **PA 24** | 01737 |
| **Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55** | | | | | | | | | | | | | | | |
| **VDD EC 355** | 07334 | 1700 | 5234 | 59 | 835 | 1.45 | 1.45 | 1148 | 60 | – | 29 | **PU 24** | 01736 | **PA 24** | 01737 |