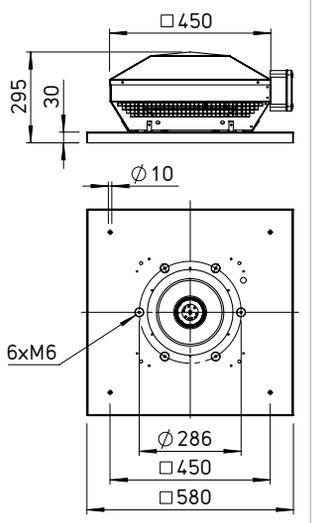
Horiz. outlet RD EC 250

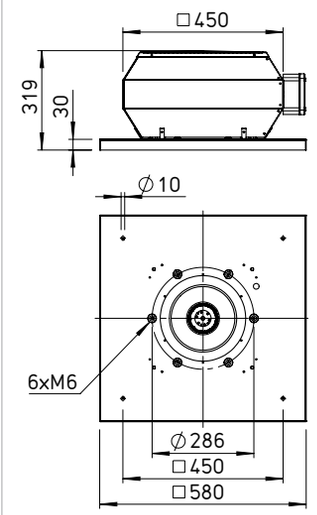
Vert. outlet VD EC 250

Dimensions RD EC 250



Dim. in mm

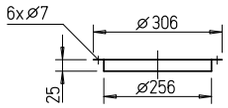
Dimensions VD EC 250



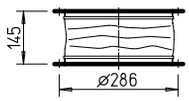
Dim. in mm

Dimensions Accessories for RD EC 250 / VD EC 250

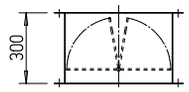
Counter flange
FR 250 Ref. no. 01203



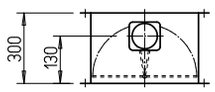
Flanged flexible connector
STS 250 Ref. no. 01220



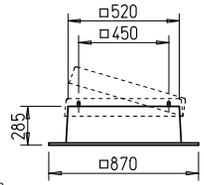
Shutter, automatic
RVS 250 Ref. no. 02592



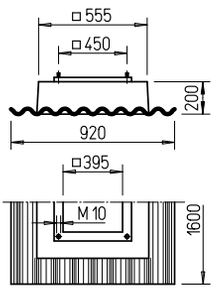
Shutter, motorised
RVM 250 Ref. no. 02576



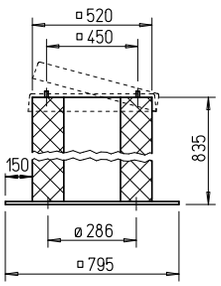
Flat roof base, hinged
FDS 250 Ref. no. 01379



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



Base silencer, hinged
SSD 250 Ref. no. 05292



Dim. in mm

Description RD 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 the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted.

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

Electrical connection
ND 180 – 250 to external terminal box 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.

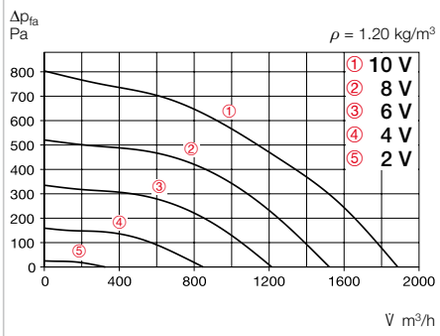
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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	499 f.
Selection table	501 f.
Accessories, details	558 f.
Universal control systems, electronic controllers, speed potentiometer	613 ff.

Performance curves RDW EC 250

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Inlet side	dB(A)	76	50	67	70	69	68	68	65
L_{WA} Outlet side	dB(A)	78	56	70	71	71	71	70	67

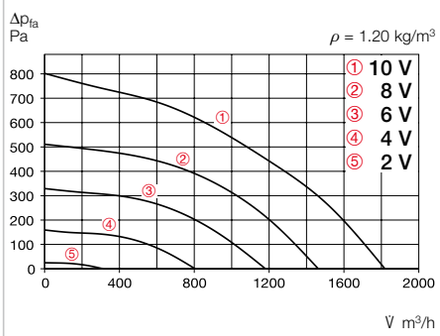


Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2870	1895	230	1.00	61	0.44
8	2300	1520	125	0.55	57	0.30
6	1840	1215	70	0.32	52	0.21
4	1290	860	30	0.15	45	0.13

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		Speed potentiometer Surf.-mounted	
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP54															
RDW EC 250	07278	2705	1900	60.5	319	1.34	1.34	1149	50	–	11	**PU 10**	01734	**PA 10**	01735

Performance curves VDW EC 250

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Inlet side	dB(A)	75	48	66	69	68	68	67	63
L_{WA} Outlet side	dB(A)	76	51	67	69	70	69	68	64



Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2860	1830	240	1.05	59	0.47
8	2300	1460	130	0.60	55	0.32
6	1840	1180	75	0.35	50	0.23
4	1280	810	30	0.20	43	0.13

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		Speed potentiometer Surf.-mounted	
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP54															
VDW EC 250	07276	2740	1825	59	321	1.36	1.36	1149	50	–	11.5	**PU 10**	01734	**PA 10**	01735