

**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 galvanised steel sheet. 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**

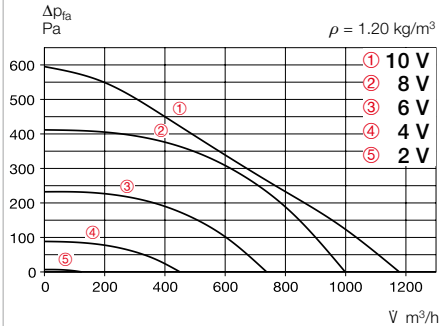
The total level and range are specified above the performance diagram for:

- 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.

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## Performance curves RDW EC 200

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>wa</sub> Inlet side		dB(A) 71	43	64	65	65	63	61	57
L <sub>wa</sub> Outlet side		dB(A) 74	45	67	67	68	66	65	61

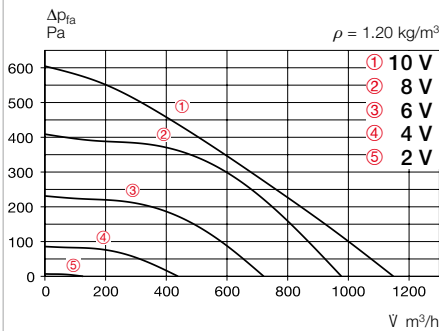


Free blowing						
Voltage V	n min <sup>-1</sup>	V m <sup>3</sup> /h	P W	I A	Lp dB(A)	SFP kW/m <sup>3</sup> /s
10	3000	1180	125	0.90	57	0.38
8	2545	1000	75	0.60	54	0.27
6	1925	740	35	0.27	48	0.17
4	1185	450	10	0.10	39	0.08

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power con- sumption	Current consump.		Wiring diagram	Max. air flow temp.		Wgt net	Speed potentiometer			
						at rated voltage	with control		at rated voltage	with control		Flush-mounted	Surf.-mounted		
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
<b>Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP44</b>															
<b>RDW EC 200</b>	07195	2650	1180	56.5	129	0.93	0.93	1149	50	–	6.8	<b>PU 10</b>	01734	<b>PA 10</b>	01735

## Performance curves VDW EC 200

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>wa</sub> Inlet side		dB(A) 69	52	58	64	63	61	61	52
L <sub>wa</sub> Outlet side		dB(A) 72	56	65	67	64	64	63	55



Free blowing						
Voltage V	n min <sup>-1</sup>	V m <sup>3</sup> /h	P W	I A	Lp dB(A)	SFP kW/m <sup>3</sup> /s
10	2960	1150	130	0.90	55	0.41
8	2520	975	80	0.60	52	0.30
6	1900	720	35	0.25	46	0.18
4	1170	440	10	0.09	36	0.08

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power con- sumption	Current consump.		Wiring diagram	Max. air flow temp.		Wgt net	Speed potentiometer			
						at rated voltage	with control		at rated voltage	with control		Flush-mounted	Surf.-mounted		
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
<b>Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP44</b>															
<b>VDW EC 200</b>	07192	2670	1150	55	129	0.94	0.94	1149	50	–	7.4	<b>PU 10</b>	01734	<b>PA 10</b>	01735