

**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 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**

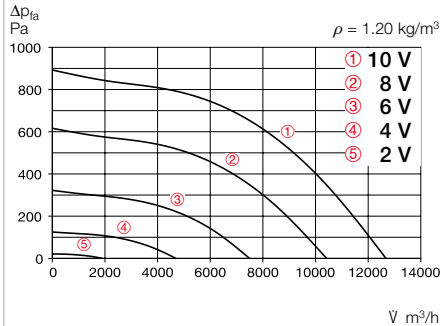
The total level and range are specified above the performance diagram for:

- 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.

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### Performance curves RDD EC 500 A

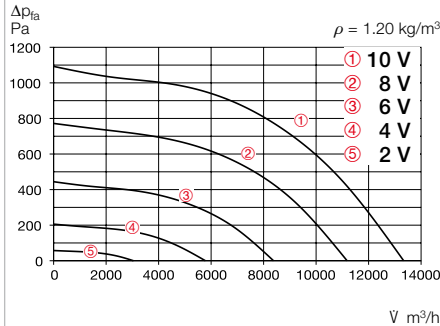
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Inlet side		dB(A)	76	64	70	70	69	68	63	59
L <sub>WA</sub> Outlet side		dB(A)	82	70	76	77	76	72	64	58



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	1400	12650	1760	2.70	65	0.50
8	1160	10400	1030	1.65	61	0.36
6	840	7480	450	0.85	54	0.22
4	530	4690	160	0.35	44	0.12

### Performance curves RDD EC 500 B

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Inlet side		dB(A)	80	68	74	74	73	72	67	63
L <sub>WA</sub> Outlet side		dB(A)	85	73	79	80	79	75	67	61

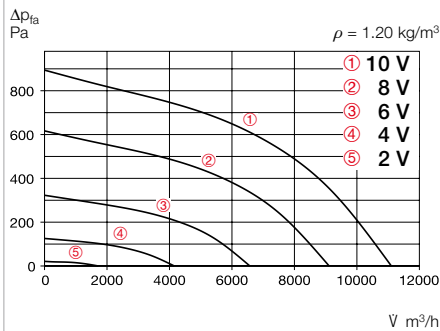


Free blowing						
Voltage V	n min <sup>-1</sup>	V m <sup>3</sup> /h	P W	I A	Lp dB(A)	SFP kW/m <sup>3</sup> /s
10	1550	13530	2430	3.55	68	0.65
8	1280	11040	1370	2.05	64	0.45
6	920	7910	560	0.97	57	0.25
4	560	4810	165	0.35	46	0.12

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consumption	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>Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54</b>															
RDD EC 500 A	07425	1400	12411	64.5	2410	3.7	3.7	1148	50	—	63	PU 24	01736	PA 24	01737
RDD EC 500 B	07417	1550	13333	67.5	3200	4.9	4.8	1148	50	—	67	PU 24	01736	PA 24	01737

### Performance curves VDD EC 500 A

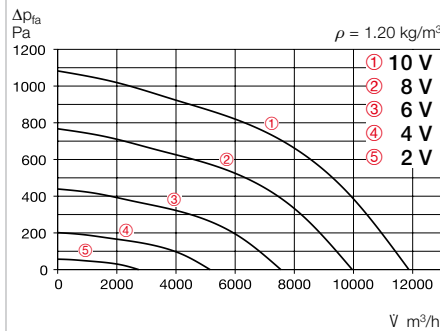
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Inlet side		dB(A)	76	67	71	69	69	66	62	58
L <sub>WA</sub> Outlet side		dB(A)	82	71	75	76	74	69	61	



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	1400	11100	1910	2.90	65	0.62
8	1160	9120	1135	1.80	61	0.45
6	840	6585	480	0.90	54	0.26
4	530	4160	170	0.35	44	0.15

### Performance curves VDD EC 500 B

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> Inlet side		dB(A)	79	70	76	77	76	72	64	58
L <sub>WA</sub> Outlet side		dB(A)	85	74	78	79	77	72	64	



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	1550	11905	2575	3.80	68	0.78
8	1280	9820	1460	2.20	64	0.54
6	920	6990	595	1.00	57	0.31
4	560	4270	170	0.35	46	0.14

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consumption	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>Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54</b>															
VDD EC 500 A	07424	1400	11042	65	2400	3.7	3.7	1148	50	—	65	PU 24	01736	PA 24	01737
VDD EC 500 B	07415	1550	11870	68	3180	4.9	4.7	1148	50	—	69	PU 24	01736	PA 24	01737