

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 or galvanised steel sheet (Type B). 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:

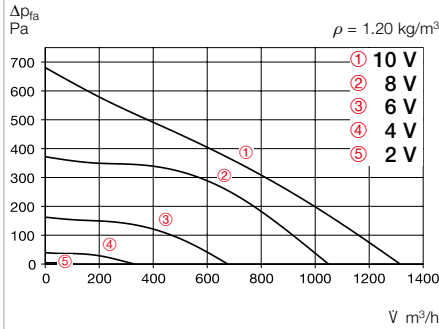
- Inlet side sound power
- Outlet side sound power.

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
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Performance curves RDW EC 225 A

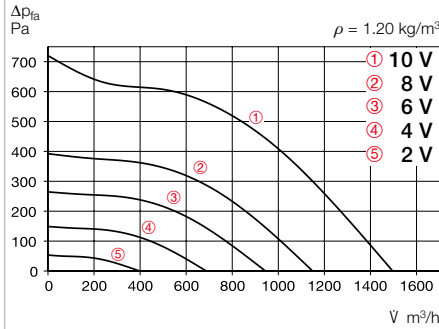
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	67	50	56	61	62	59	49
L _{WA} Outlet side		dB(A)	69	49	60	66	62	58	48



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	2700	1300	145	1.05	52	0.40
8	2160	1050	75	0.55	48	0.26
6	1430	680	25	0.20	39	0.13
4	720	330	5	0.05	28	0.05

Performance curves RDW EC 225 B

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	75	49	66	69	68	67	64
L _{WA} Outlet side		dB(A)	77	55	69	70	70	69	66

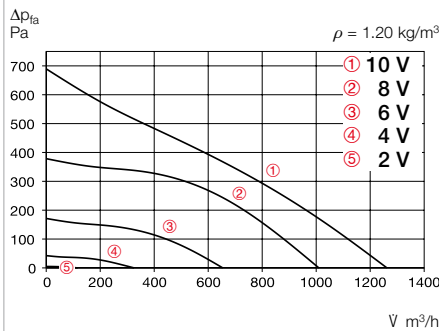


Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	3020	1500	205	0.90	52	0.49
8	2350	1150	105	0.45	55	0.33
6	1940	945	65	0.30	51	0.25
4	1450	690	35	0.20	45	0.18

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 ⁻¹	m ³ /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 IP44															
RDW EC 225 A	07262	2550	1310	52	163	1.14	1.14	1149	50	—	6.7	PU 10	01734	PA 10	01735
Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP54															
RDW EC 225 B	07243	3020	1500	60	246	1.06	1.06	1149	50	—	8	PU 10	01734	PA 10	01735

Performance curves VDW EC 225 A

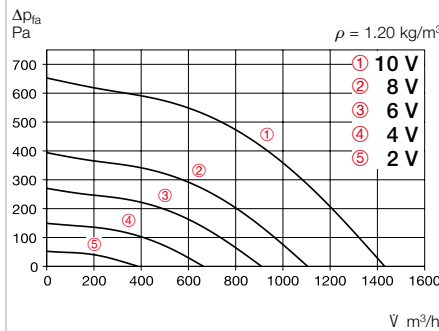
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	68	43	59	61	62	61	56
L _{WA} Outlet side		dB(A)	70	46	61	62	64	62	57



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	2690	1260	150	1.05	53	0.43
8	2160	1000	75	0.60	49	0.27
6	1430	650	25	0.20	40	0.14
4	720	330	5	0.05	27	0.05

Performance curves VDW EC 225 B

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	74	47	65	68	67	67	62
L _{WA} Outlet side		dB(A)	75	50	66	68	69	68	63



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	3020	1430	205	0.9	58	0.52
8	2350	1100	105	0.5	53	0.34
6	1950	910	65	0.3	49	0.26
4	1450	670	35	0.2	43	0.19

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 ⁻¹	m ³ /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 IP44															
VDW EC 225 A	07241	2500	1260	53	161	1.14	1.14	1149	50	—	7.3	PU 10	01734	PA 10	01735
Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP54															
VDW EC 225 B	07240	3015	1430	58	244	1.06	1.06	1149	50	—	8.5	PU 10	01734	PA 10	01735