

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**

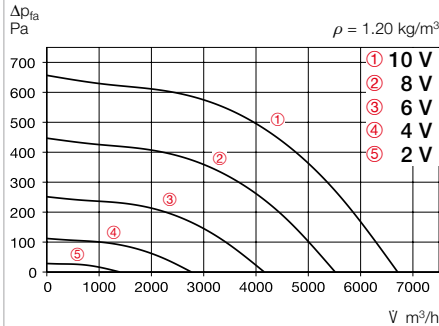
The total level and range are specified above the performance diagram for:

- 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 RDW EC 400

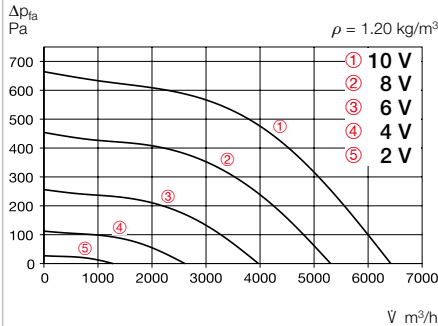
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side	dB(A)	72	62	66	67	64	63	57	53
L _{WA} Outlet side	dB(A)	77	68	71	71	71	67	60	53



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1500	6695	691	2.90	60	0.37
8	1237	5522	388	1.68	56	0.25
6	927	4168	173	0.83	50	0.15
4	617	2761	62	0.45	41	0.08

Performance curves RDD EC 400

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side	dB(A)	72	62	66	67	64	63	57	53
L _{WA} Outlet side	dB(A)	77	68	71	71	71	67	60	53

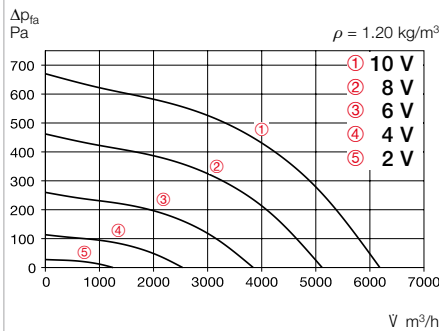


Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1500	6450	715	1.20	60	0.40
8	1250	5350	445	0.80	56	0.30
6	910	3910	210	0.45	50	0.19
4	580	2500	80	0.20	40	0.12

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 ⁻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 IP54															
RDW EC 400	07365	1500	6695	59.5	1050	4.4	4.4	1147	40	—	28	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
RDD EC 400	07369	1500	6421	59.5	950	1.6	1.7	1148	60	—	33	PU 24	01736	PA 24	01737

Performance curves VDW EC 400

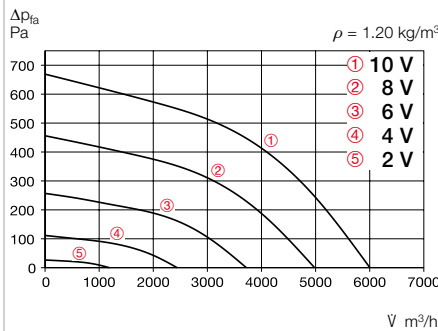
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side	dB(A)	73	63	67	68	65	64	58	54
L _{WA} Outlet side	dB(A)	77	64	72	71	71	67	61	55



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1499	6198	726	3.0	60	0.42
8	1246	5132	416	2.0	56	0.29
6	935	3859	187	1.0	50	0.17
4	619	2544	67	0.47	41	0.09

Performance curves VDD EC 400

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side	dB(A)	71	60	65	65	64	63	58	52
L _{WA} Outlet side	dB(A)	76	66	67	67	71	66	59	52



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1500	6060	755	1.25	59	0.45
8	1250	5050	465	0.85	55	0.33
6	910	3680	220	0.45	49	0.22
4	580	2350	80	0.20	39	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 ⁻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 IP54															
VDW EC 400	07364	1500	6200	59.5	1000	4.2	4.2	1147	40	—	33	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
VDD EC 400	07368	1500	6022	58.5	950	1.7	1.7	1148	60	—	33	PU 24	01736	PA 24	01737