

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**

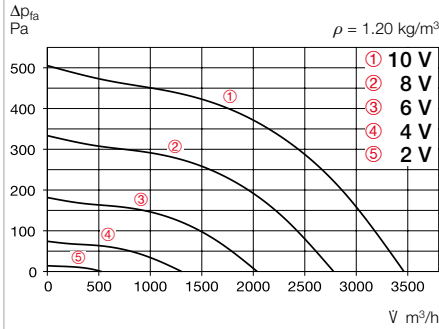
The total level and range are specified above the performance diagram for:

- 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.

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 315

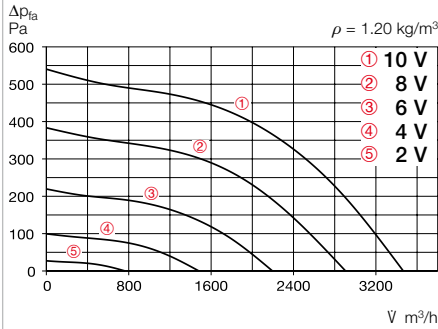
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Inlet side		dB(A)	70	58	62	64	62	63	62	51
L _{WA} Outlet side		dB(A)	72	59	66	67	66	62	54	50



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1641	3463	316	1.8	55	0.33
8	1325	2779	169	1.0	50	0.22
6	973	2039	72	0.5	44	0.13
4	621	1309	25	0.2	34	0.07

Performance curves RDD EC 315

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Inlet side		dB(A)	70	57	61	63	61	62	61	50
L _{WA} Outlet side		dB(A)	72	59	65	66	65	61	53	50

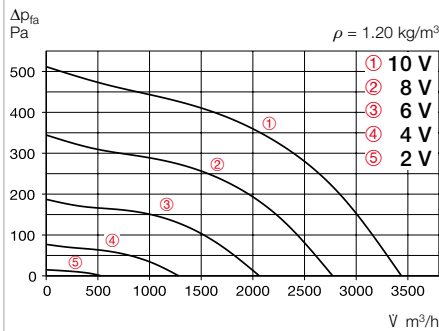


Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1700	3460	380	0.65	55	0.40
8	1430	2900	240	0.45	51	0.30
6	1040	2100	110	0.25	44	0.19
4	670	1350	45	0.15	35	0.12

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 315	07306	1650	3465	55	450	2	2	1149	40	–	18	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
RDD EC 315	07314	1700	3484	54.5	460	1.0	0.9	1148	60	–	21.3	PU 24	01736	PA 24	01737

Performance curves VDW EC 315

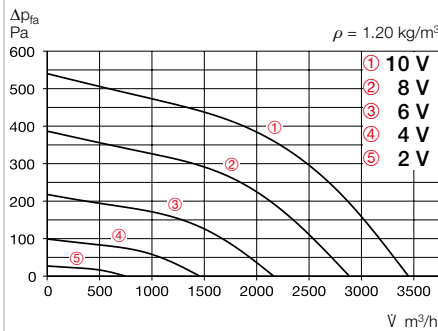
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Inlet side		dB(A)	72	61	66	66	65	64	59	53
L _{WA} Outlet side		dB(A)	77	67	68	68	72	67	60	53



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1645	3441	316	1.80	55	0.33
8	1329	2783	176	1.04	50	0.23
6	990	2060	76	0.48	44	0.13
4	612	1276	23	0.19	35	0.07

Performance curves VDD EC 315

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Inlet side		dB(A)	75	64	69	69	68	67	62	56
L _{WA} Outlet side		dB(A)	80	70	71	71	75	70	63	56



Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	1700	3420	370	0.69	55	0.39
8	1430	2890	240	0.50	51	0.30
6	1040	2090	110	0.25	44	0.19
4	655	1320	45	0.15	35	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 315	07304	1650	3440	55	450	2	2	1149	40	–	17.2	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
VDD EC 315	07312	1700	3453	54.5	460	1.0	0.9	1148	60	–	21.5	PU 24	01736	PA 24	01737