

**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**

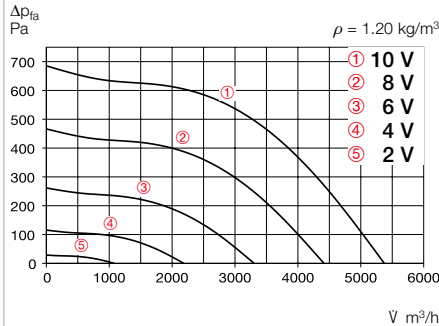
The total level and range are specified above the performance diagram for:

- 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
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### Performance curves RDW EC 355

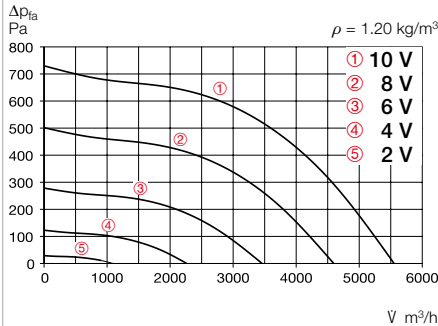
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	70	60	65	64	62	60	57	52
L <sub>WA</sub> Outlet side	dB(A)	76	67	70	70	70	66	57	51



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	1700	5400	580	2.50	59	0.39
8	1400	4420	330	1.50	55	0.27
6	1050	3320	150	0.75	49	0.16
4	670	2170	60	0.45	40	0.10

### Performance curves RDD EC 355

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	72	62	67	66	64	62	59	54
L <sub>WA</sub> Outlet side	dB(A)	77	68	71	71	71	67	58	52

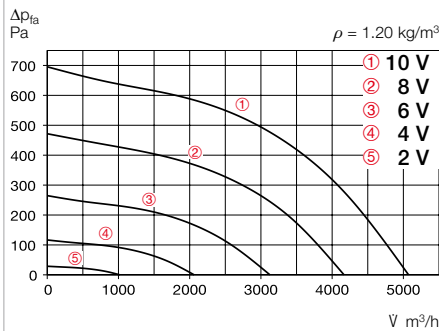


Free blowing						
Voltage V	n min <sup>-1</sup>	V m <sup>3</sup> /h	P W	I A	Lp dB(A)	SFP kW/m <sup>3</sup> /s
10	1750	5340	670	1.20	60	0.45
8	1450	4420	410	0.75	56	0.33
6	1060	3200	175	0.35	50	0.20
4	670	2000	60	0.15	41	0.11

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>Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP55</b>															
<b>RDW EC 355</b>	07333	1700	5400	58.5	810	3.47	3.47	1147	50	—	26.5	<b>PU 24</b>	01736	<b>PA 24</b>	01737
<b>Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55</b>															
<b>RDD EC 355</b>	07335	1750	5558	59.5	870	1.6	1.49	1148	60	—	28.5	<b>PU 24</b>	01736	<b>PA 24</b>	01737

### Performance curves VDW EC 355

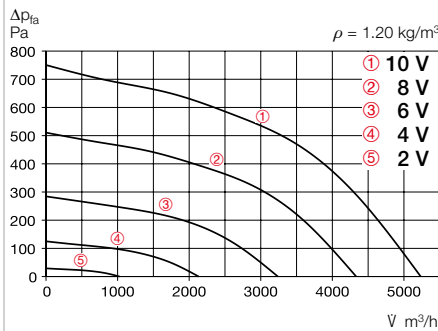
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	70	60	65	64	62	60	57	52
L <sub>WA</sub> Outlet side	dB(A)	75	65	69	69	69	66	57	53



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	1700	5080	590	2.50	58	0.42
8	1400	4180	335	1.50	54	0.29
6	1050	3130	155	0.80	48	0.18
4	700	2070	60	0.50	40	0.10

### Performance curves VDD EC 355

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	71	61	66	65	63	61	58	53
L <sub>WA</sub> Outlet side	dB(A)	76	67	70	70	70	66	58	52



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	1750	5030	650	1.20	59	0.47
8	1460	4180	390	0.75	55	0.34
6	1070	3040	170	0.35	49	0.20
4	667	1900	60	0.15	39	0.11

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>Single phase alternating current, 1~, 230 V, 50 Hz, EC motor, protection category IP55</b>															
<b>VDW EC 355</b>	07331	1700	5080	58	800	3.45	3.45	1147	50	—	27	<b>PU 24</b>	01736	<b>PA 24</b>	01737
<b>Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55</b>															
<b>VDD EC 355</b>	07334	1700	3425	59	835	1.45	1.45	1148	60	—	29	<b>PU 24</b>	01736	<b>PA 24</b>	01737