

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 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**

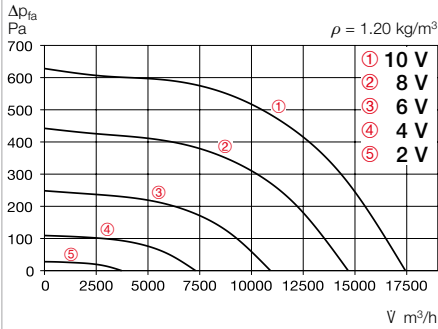
The total level and range are specified above the performance diagram for:

- 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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Accessories, details	550 f.
Universal control systems, electronic controllers, speed potentiometer	605 ff.

Performance curves RDD EC 630

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k	
L _{WA} Inlet side		dB(A)	80	63	70	74	75	73	71	62
L _{WA} Outlet side		dB(A)	84	68	73	80	79	75	69	63

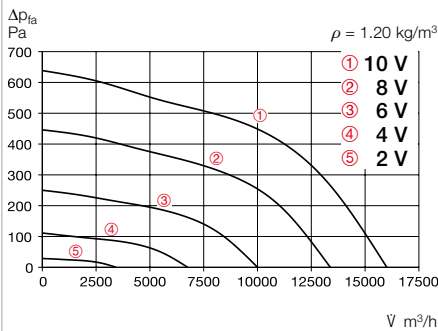


Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	940	17710	2150	3.20	67	0.44
8	780	14650	1250	1.95	63	0.31
6	570	10580	490	0.90	56	0.17
4	350	6660	140	0.30	46	0.08

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.
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
RDD EC 630	07455	940	17457	67	2730	4.2	4.3	1148	60	–	87	PU 24	01736	PA 24	01737

Performance curves VDD EC 630

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Free blowing						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /s
10	940	16000	2380	3.55	67	0.54
8	780	13180	1370	2.15	63	0.37
6	570	9530	540	0.95	56	0.20
4	350	5890	150	0.32	46	0.09

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.
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
VDD EC 630	07451	940	16013	66.5	2700	4.2	4.2	1148	60	–	90	PU 24	01736	PA 24	01737