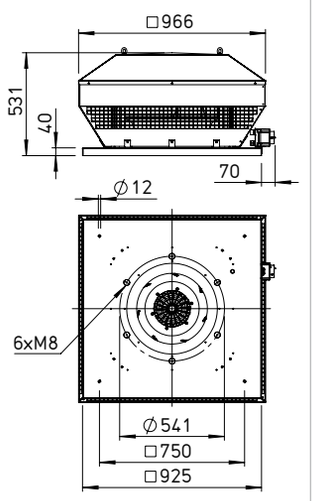
Horiz. outlet RD EC 500



Verti. outlet VD EC 500

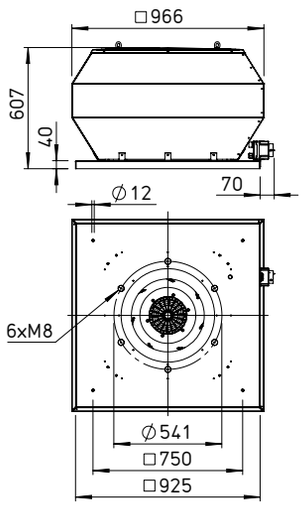


Dimensions RD EC 500



Dim. in mm

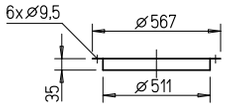
Dimensions VD EC 500



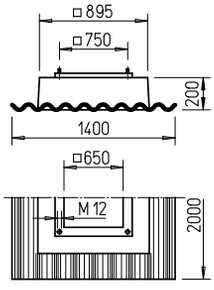
Dim. in mm

Dimensions Accessories for RD EC 500 / VD EC 500

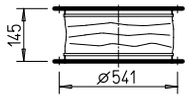
Counter flange
FR 500 Ref. no. 01208



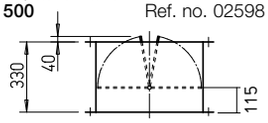
Corrugated roof base, profile 5
WDS 500 Ref. no. 01564



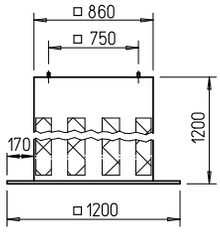
Flanged flexible connector
STS 500 Ref. no. 01225



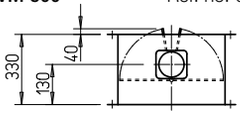
Shutter, automatic
RVS 500 Ref. no. 02598



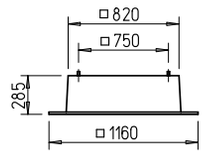
Base silencer
SSD 500 Ref. no. 05017



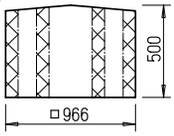
Shutter, motorised
RVM 500 Ref. no. 02582



Flat roof base
FDS 500 Ref. no. 01382



Hood silencer
HSDV 500 Ref. no. 07483
only for type VD



Dim. in mm

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 a high level of efficiency. Maintenance-free and 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.

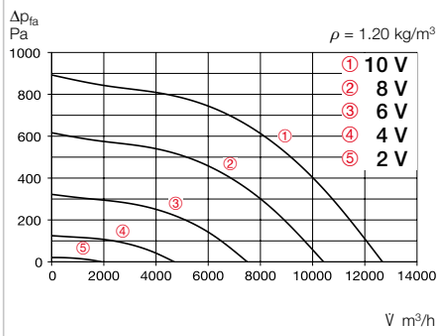
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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	501 f.
Selection table	503 f.
Accessories, details	560 f.
Universal control systems, electronic controllers, speed potentiometer	615 ff.

Performance curves RDD EC 500 A

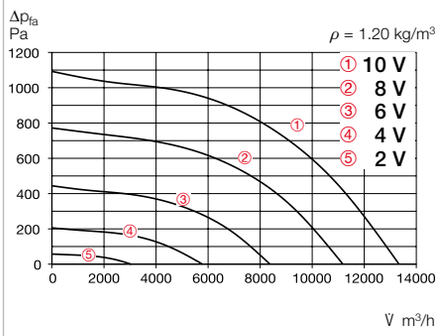
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	76	64	70	70	69	68	63	59
L_{WA}	Outlet side	dB(A)	82	70	76	77	76	72	64	58



Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1400	12650	1760	2.70	65	0.50
8	1160	10400	1030	1.65	61	0.36
6	840	7480	450	0.85	54	0.22
4	530	4690	160	0.35	44	0.12

Performance curves RDD EC 500 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	80	68	74	74	73	72	67	63
L_{WA}	Outlet side	dB(A)	85	73	79	80	79	75	67	61

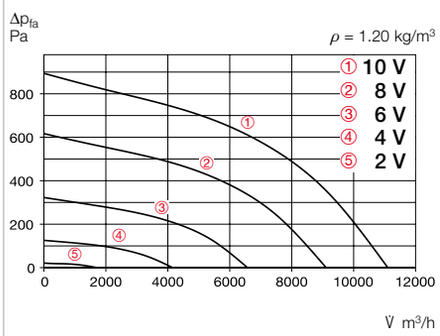


Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1550	13530	2430	3.55	68	0.65
8	1280	11040	1370	2.05	64	0.45
6	920	7910	560	0.97	57	0.25
4	560	4810	165	0.35	46	0.12

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consumption	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Wgt net	Speed potentiometer Flush-mounted **Type**	Flush-mounted Ref. no.	Surf.-mounted **Type**	Surf.-mounted Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg				
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
RDD EC 500 A	07425	1400	12411	64.5	2410	3.7	3.7	1148	50	–	63	**PU 24**	01736	**PA 24**	01737
RDD EC 500 B	07417	1550	13333	67.5	3200	4.9	4.8	1148	50	–	67	**PU 24**	01736	**PA 24**	01737

Performance curves VDD EC 500 A

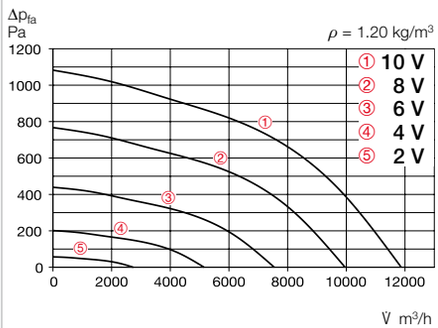
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	76	67	71	69	69	66	62	58
L_{WA}	Outlet side	dB(A)	82	71	75	76	76	74	69	61



Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1400	11100	1910	2.90	65	0.62
8	1160	9120	1135	1.80	61	0.45
6	840	6585	480	0.90	54	0.26
4	530	4160	170	0.35	44	0.15

Performance curves VDD EC 500 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	79	70	76	77	76	72	64	58
L_{WA}	Outlet side	dB(A)	85	74	78	79	79	77	72	64



Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1550	11905	2575	3.80	68	0.78
8	1280	9820	1460	2.20	64	0.54
6	920	6990	595	1.00	57	0.31
4	560	4270	170	0.35	46	0.14

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consumption	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Wgt net	Speed potentiometer Flush-mounted **Type**	Flush-mounted Ref. no.	Surf.-mounted **Type**	Surf.-mounted Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg				
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP54															
VDD EC 500 A	07424	1400	11042	65	2400	3.7	3.7	1148	50	–	65	**PU 24**	01736	**PA 24**	01737
VDD EC 500 B	07415	1550	11870	68	3180	4.9	4.7	1148	50	–	69	**PU 24**	01736	**PA 24**	01737