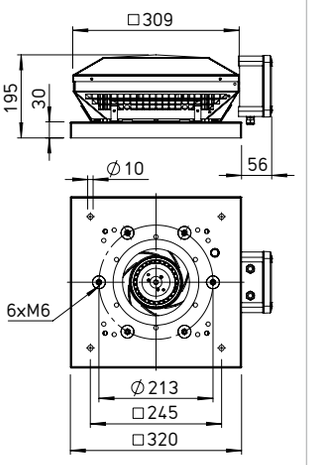
Horiz. outlet RD EC 180



Vert. outlet VD EC 180

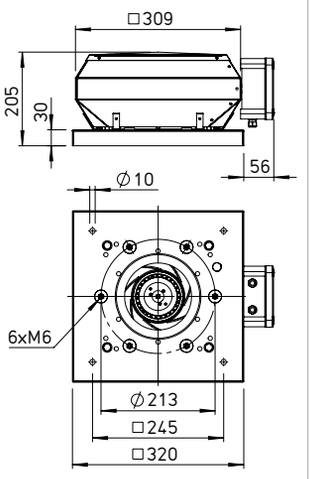


Dimensions RD EC 180



Dim. in mm

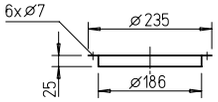
Dimensions VD EC 180



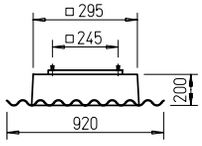
Dim. in mm

Dimensions Accessories for RD EC 180 / VD EC 180

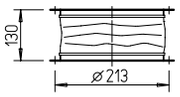
Counter flange
FR 180 Ref. no. 01200

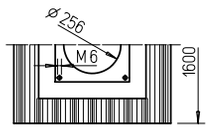


Corrugated roof base, profile 5
WDS 180 Ref. no. 01559

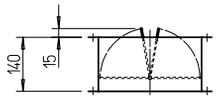


Flanged flexible connector
STS 180 Ref. no. 01217

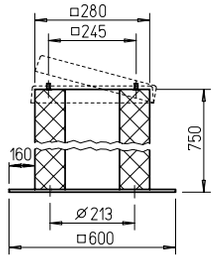




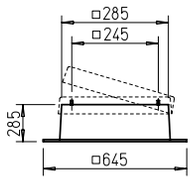
Shutter, automatic
DVS 180 Ref. no. 01247



Base silencer, hinged
SSD 180 Ref. no. 05289



Flat roof base, hinged
FDS 180 Ref. no. 01377



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 180 – 250 to external terminal box 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.

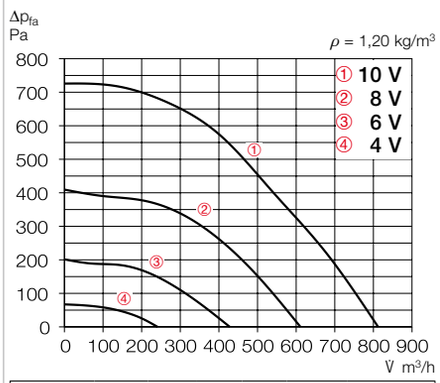
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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 RDW EC 180

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	72	54	60	64	66	67	64	58
L_{WA}	Outlet side	dB(A)	75	56	64	66	69	70	67	62

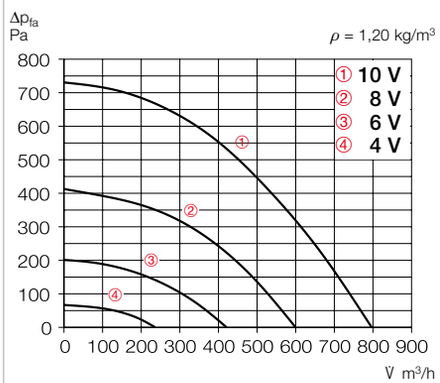


Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3962	812	138	1.19	60	0.61
8	2967	611	63	0.55	53	0.37
6	2077	428	25	0.22	43	0.21
4	1199	241	7	0.08	30	0.11

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		Speed potentiometer Surf.-mounted	
		min⁻¹	m³/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 IP44															
RDW EC 180	07125	3820	810	58	150	1.24	1.24	1149	50	–	4.9	**PU 10**	01734	**PA 10**	01735

Performance curves VDW EC 180

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	70	52	58	62	64	65	62	56
L_{WA}	Outlet side	dB(A)	73	54	62	64	67	68	65	60



Free blowing						
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3952	797	139	1.17	58	0.62
8	2967	600	62	0.55	51	0.37
6	2077	421	24	0.22	41	0.21
4	1195	236	7	0.08	28	0.11

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		Speed potentiometer Surf.-mounted	
		min⁻¹	m³/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 IP44															
VDW EC 180	07123	3870	795	56	150	1.24	1.24	1149	50	–	5.2	**PU 10**	01734	**PA 10**	01735