

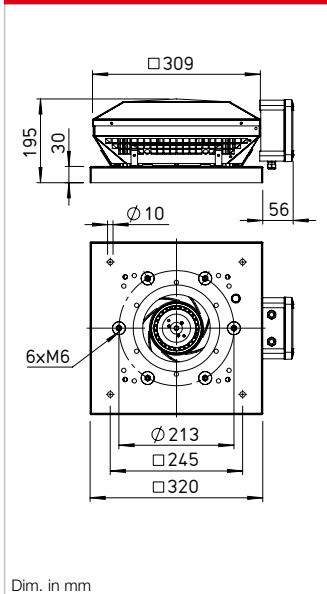
Horiz. outlet RD EC 180



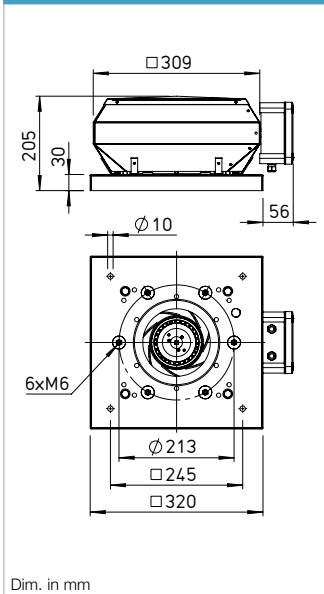
Vert. outlet VD EC 180



Dimensions RD EC 180



Dimensions VD EC 180



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

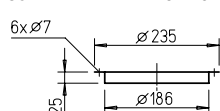
□ Outlet side sound power.

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.

Dimensions Accessories for RD EC 180 / VD EC 180

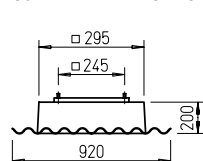
Counter flange FR 180

Ref. no. 01200



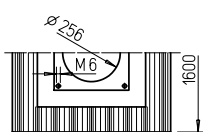
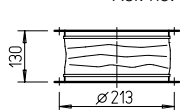
Corrugated roof base, profile 5 WDS 180

Ref. no. 01559



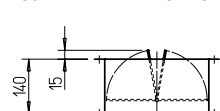
Flanged flexible connector STS 180

Ref. no. 01217



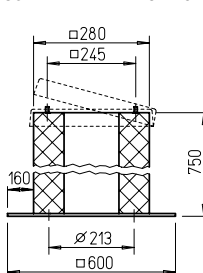
Shutter, automatic DVS 180

Ref. no. 01247



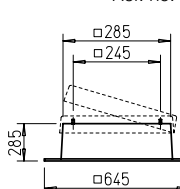
Base silencer, hinged SSD 180

Ref. no. 05289



Flat roof base, hinged FDS 180

Ref. no. 01377

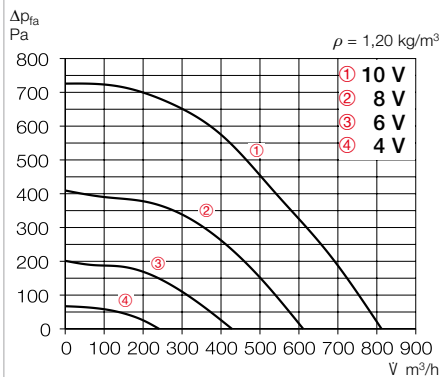


Dim. in mm

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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

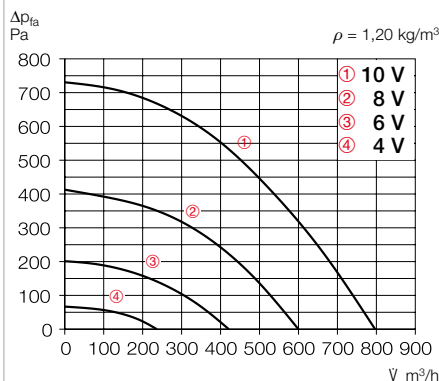


Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
10	3962	812	138	1.19	60	0.61
8	2967	611	63	0.55	53	0.37
6	2077	428	25	0.22	43	0.21
4	1199	241	7	0.08	30	0.11

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power con- sumption	Current consump.		Wiring diagram	Max. air flow temp.		Wgt net	Speed potentiometer			
		min ⁻¹	m³/h	dB(A) in 4 m	W	at rated voltage	with control	No.	at rated voltage	with control	kg	Flush-mounted		Surf.-mounted	
						A	A	No.	°C	°C		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	V 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 con- sumption	Current consump.		Wiring diagram	Max. air flow temp.		Wgt net	Speed potentiometer			
		min ⁻¹	m³/h	dB(A) in 4 m	W	at rated voltage	with control	No.	at rated voltage	with control	kg	Flush-mounted		Surf.-mounted	
						A	A	No.	°C	°C		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