

Horiz. outlet RD EC 355



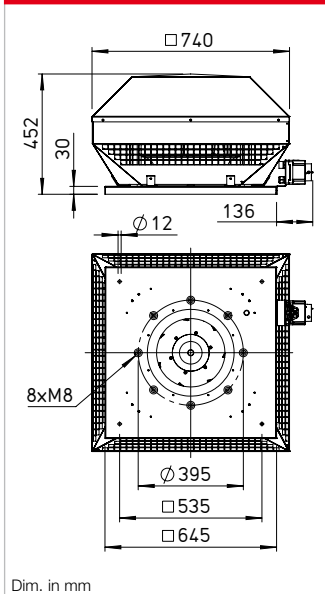
EC

Verti. outlet VD EC 355

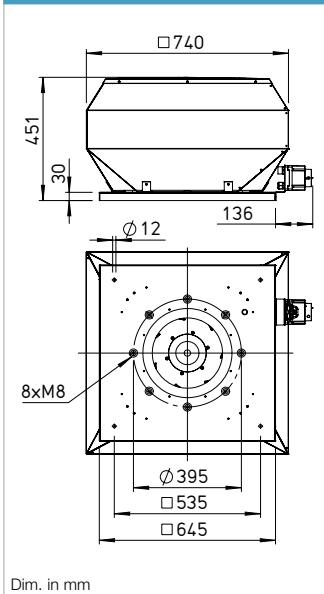


EC

Dimensions RD EC 355



Dimensions VD EC 355



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

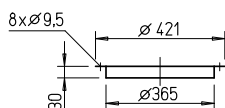
□ Outlet side sound power.

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.

Dimensions Accessories for RD EC 355 / VD EC 355

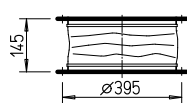
Counter flange FR 355

Ref. no. 01205



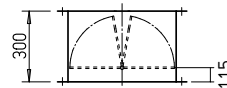
Flanged flexible connector STS 355

Ref. no. 01222



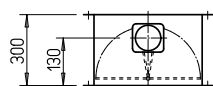
Shutter, automatic RVS 355

Ref. no. 02595



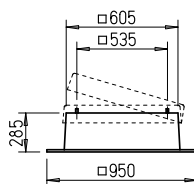
Shutter, motorised RVM 355

Ref. no. 02579



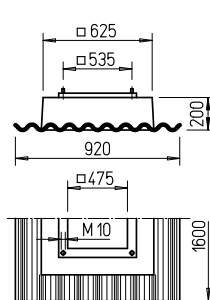
Flat roof base, hinged FDS 355

Ref. no. 01380



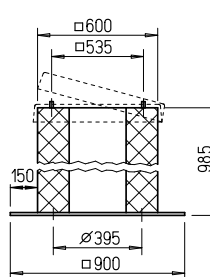
Corrugated roof base, profile 5 WDS 355

Ref. no. 01562



Base silencer, hinged SSD 355

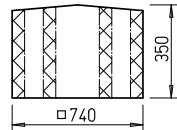
Ref. no. 05024



Hood silencer HSDV 355

Ref. no. 07480

only for type VD

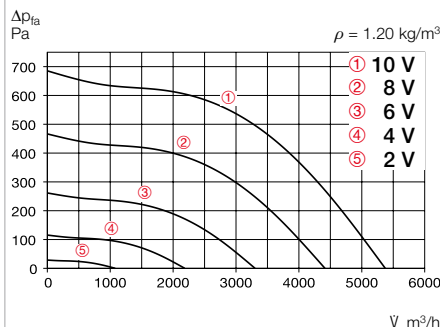


Dim. in mm

■ References	Page
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Accessories, details	560 f.
Universal control systems, electronic controllers, speed potentiometer	615 ff.

Performance curves RDW EC 355

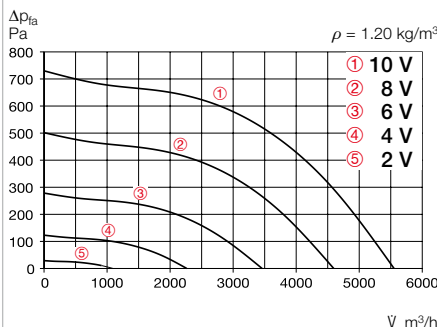
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	70	60	65	64	62	60	57
L _{WA} Outlet side		dB(A)	76	67	70	70	66	57	51



Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/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 _{WA} Inlet side		dB(A)	72	62	67	66	64	62	59
L _{WA} Outlet side		dB(A)	77	68	71	71	67	58	52

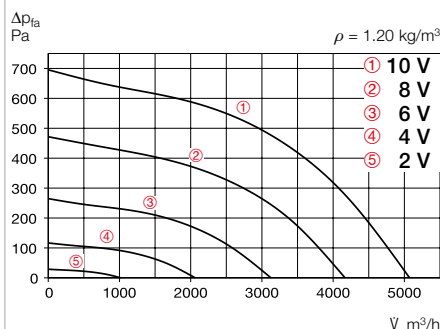


Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
10	1750	5340	670	1.20	60	0.45
8	1450	4420	410	0.75	56	0.33
6	1060	3200	175	0.35	50	0.20
4	670	2000	60	0.15	41	0.11

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consumption	Current consump. at rated voltage	with control	Wiring diagram	Max. air flow temp. at rated voltage	with control	Wgt net	Speed potentiometer			
		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 IP55															
RDW EC 355	07333	1700	5400	58.5	810	3.47	3.47	1147	50	—	26.5	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55															
RDD EC 355	07335	1750	5558	59.5	870	1.6	1.49	1148	60	—	28.5	PU 24	01736	PA 24	01737

Performance curves VDW EC 355

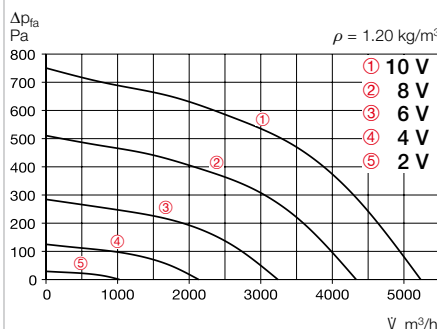
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	70	60	65	64	62	60	57
L _{WA} Outlet side		dB(A)	75	65	69	69	66	57	53



Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/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 _{WA} Inlet side		dB(A)	71	61	66	65	63	61	58
L _{WA} Outlet side		dB(A)	76	67	70	70	66	58	52



Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/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. at rated voltage	with control	Wiring diagram	Max. air flow temp. at rated voltage	with control	Wgt net	Speed potentiometer			
		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 IP55															
VDW EC 355	07331	1700	5080	58	800	3.45	3.45	1147	50	—	27	PU 24	01736	PA 24	01737
Three phase current, 3~, 400 V, 50 Hz, EC motor, protection category IP55															
VDD EC 355	07334	1700	5234	59	835	1.45	1.45	1148	60	—	29	PU 24	01736	PA 24	01737