

Horiz. outlet RD EC 630



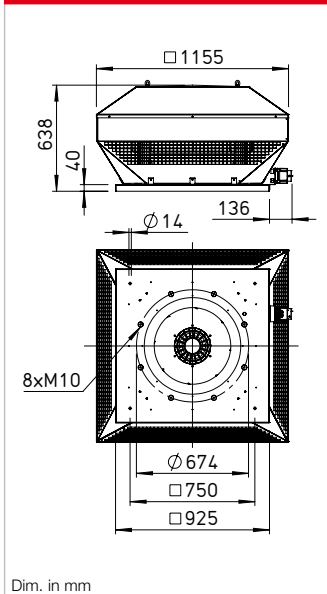
EC

Verti. outlet VD EC 630

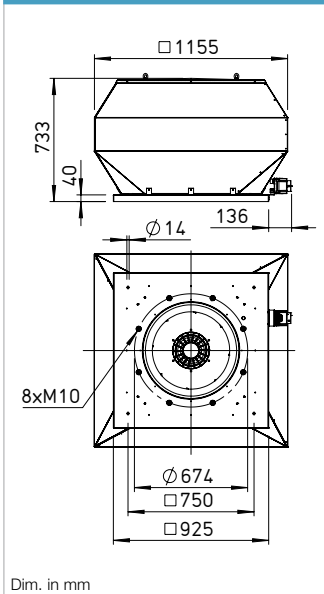


EC

Dimensions RD EC 630



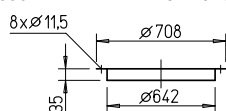
Dimensions VD EC 630



Dimensions Accessories for RD EC 630 / VD EC 630

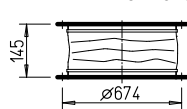
Counter flange
FR 630

Ref. no. 01211



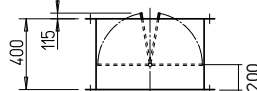
Flanged flexible connector
STS 630

Ref. no. 01228



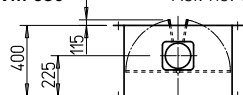
Shutter, automatic
RVS 630

Ref. no. 02600



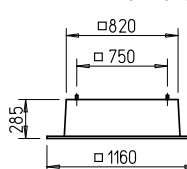
Shutter, motorised
RVM 630

Ref. no. 02609



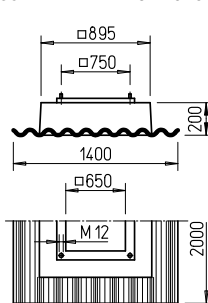
Flat roof base
FDS 630

Ref. no. 01382



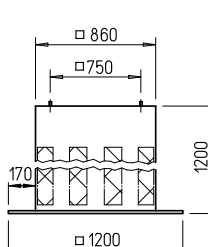
Corrugated roof base, profile 5
WDS 630

Ref. no. 01565



Base silencer
SSD 630

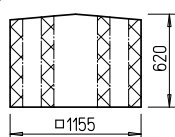
Ref. no. 05017



Hood silencer
HSDV 630

only for type VD

Ref. no. 07489



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 aluminium. 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

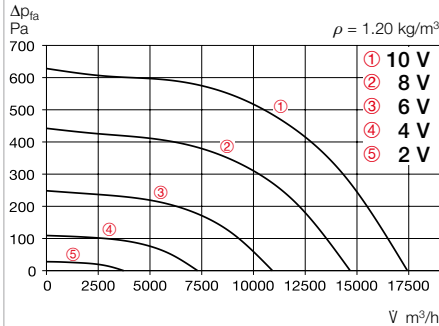
□ Outlet side sound power.

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
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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 630

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

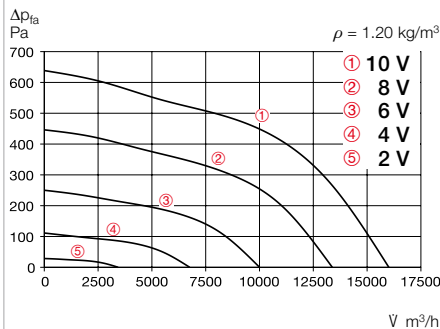


Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/s
10	940	17710	2150	3.20	67	0.44
8	780	14650	1250	1.95	63	0.31
6	570	10580	490	0.90	56	0.17
4	350	6660	140	0.30	46	0.08

Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power 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.
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

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



Free blowing						
Voltage V	n min ⁻¹	V m³/h	P W	I A	Lp dB(A)	SFP kW/m³/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 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.
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