

Horiz. outlet RD 630



Vert. outlet VD 630



Vert. outlet VD 630 T120



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

Speed-controllable external rotor motor in closed design (IP54) (explosion-proof version in IP44). Flange motor with self-ventilation (T120 version) in IP55. Ball bearing mounted with moisture protection. Maintenance-free.

Motor protection

Through built-in thermal contacts or built-in PTC thermistors, which must be connected to a motor protection circuit breaker. Assignment see type table.

Electrical connection

No dismantling of casing, to external isolator switch (explosion-proof version to terminal box) in protection category IP65.

Protection grille

On the outlet side as standard according to DIN EN ISO 13857.

Power control

All types have continuously variable speed control in the range from 0 – 100 % with a frequency inverter with integrated, all-pole effective sine filter (except for explosion-proof version) or five-step control units (except for units with FU). Assignment see type table.

Delivery

Units are ready-for-connection, fully pre-assembled in the shipping box. Easy positioning due to standard crane hook.

Noise

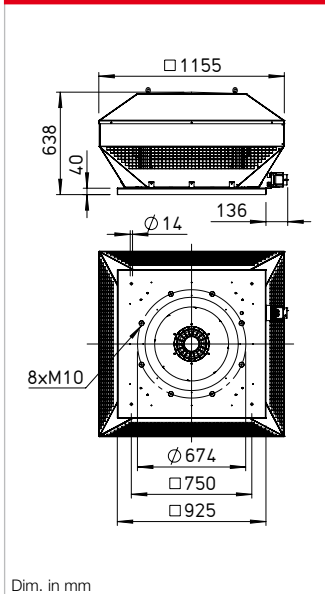
The total level and range are specified above the performance diagram for:

☐ Inlet side sound power

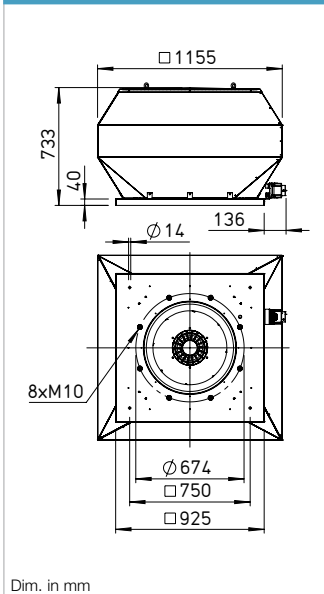
☐ Outlet side sound power.

The horizontally case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table. Hood silencer see Accessories.

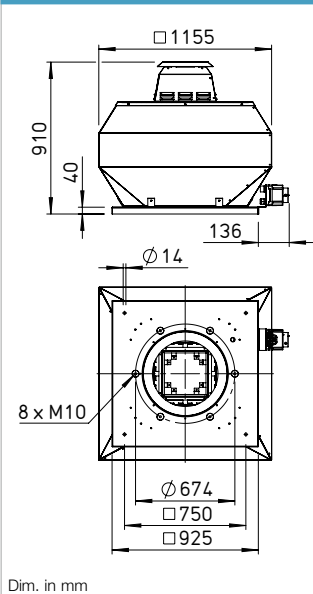
Dimensions RD 630



Dimensions VD 630



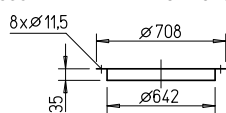
Dimensions VD 630 T120



Dimensions Accessories for RD / VD 630*

**Counter flange
FR 630**

Ref. no. 01211



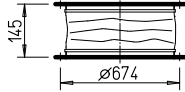
**Flanged flexible connector*
STS 630**

Ref. no. 01228

For explosion-proof fans

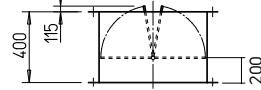
STS 630 Ex

Ref. no. 02509



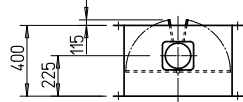
**Shutter, automatic
RVS 630**

Ref. no. 02600



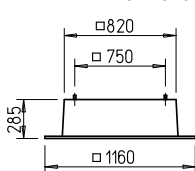
**Shutter, motorised
RVM 630**

Ref. no. 02609



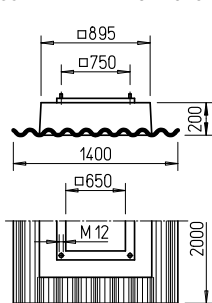
**Flat roof base
FDS 630**

Ref. no. 01382



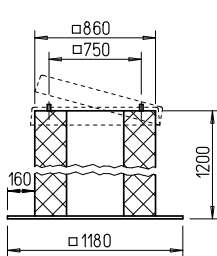
**Corrugated roof base, profile 5
WDS 630**

Ref. no. 01565



**Base silencer
SSD 630**

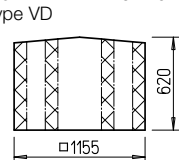
Ref. no. 05017



**Hood silencer
HSDV 630**

only for type VD

Ref. no. 07489



Description RD

Horizontal outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD

Vertical outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD T120

Designed for the delivery of process air up to +120 °C. Enclosed motor located outside of the air flow. Compliant with VDI 2052.

Description of all series

Casing

Casing made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel (explosion-proof version inlet nozzle made of aluminium). Base plate with threaded screws for attachment of inlet-side accessories (hole pattern according to DIN 24155).

References

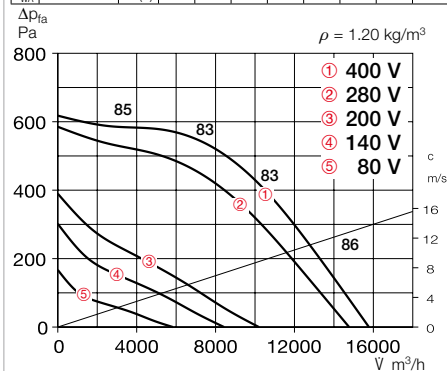
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Accessories, details	560 f.
Speed controllers, controllers and switches	601 ff.

* Accessories VD T120 see installation accessories p. 561 f. Other accessories upon request.

Performance curves RDD 630/6

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	79	62	69	73	74	72	70
L _{WA} Outlet side		dB(A)	83	67	73	79	78	74	62



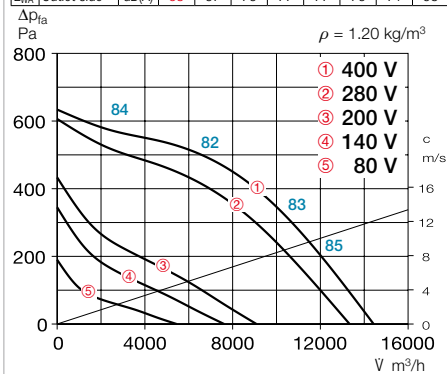
Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net	Motor protection circuit breaker	Speed controller 5-step		
						at rated voltage	with control		at rated voltage	with control			Type	Ref. no.	Type
		min ⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 630/6	07447	875	16650	66	2380	4.7	5.2	1129	55	45	92.0	MD	05849	RDS 7 ²⁾	01578
Ex Explosion-proof, II 3G Ex h IIB + H ₂ T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44															
RDD 630/6 Ex ¹⁾	07450	905	16500	67.5	2690	5.4	5.6	1157	40	40	97.0	MSA	01289	TSD 7	01504

1) Performance diagram at www.HeliosSelect.de.

2) Includes motor protection circuit breaker.

Performance curves VDD 630/6

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L _{WA} Inlet side		dB(A)	78	65	71	72	72	71	64
L _{WA} Outlet side		dB(A)	83	67	76	77	77	76	63



Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net	Motor protection circuit breaker	Speed controller 5-step		
						at rated voltage	with control		at rated voltage	with control			Type	Ref. no.	Type
		min ⁻¹	m ³ /h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 630/6	07441	930	14430	66	2130	4.6	4.95	1129	60	60	96.0	—	—	RDS 7 ²⁾	01578
🔧 Ex Explosion-proof, II 3G Ex h IIB + H ₂ T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44															
VDD 630/6 Ex ¹⁾	07448	910	14700	67	2660	5.3	5.5	1157	40	40	101.0	MSA	01289	TSD 7	01504
🔧 T120 Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP55															
VDD 630/6 T120 ¹⁾	07456	985	19540	69	3160	7.5	7.5	1130	105	—	105.0	MSA	01289	FU-BS 10	05462

1) Performance diagram at www.HeliosSelect.de.

2) Includes motor protection circuit breaker.