

Horiz. outlet RD 355



Vert. outlet VD 355



Vert. outlet VD 355 T120



■ **Impeller**

High-performance centrifugal impeller with backward curved blades made of plastic (T120 and explosion-proof version 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 IP54. 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 1~ types have continuously variable speed control in the range from 0 – 100 % through electronic speed controllers or five-step control units. All 3~ types have continuously variable speed control in the range 0 – 100 % with a frequency inverter with integrated, all-pole effective sine filter (except for explosion-proof version) or five-step control units. Assignment see type table.

■ **Delivery**

Units are ready-for-connection, fully pre-assembled in the shipping box.

■ **Noise**

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

☐ Inlet side sound power

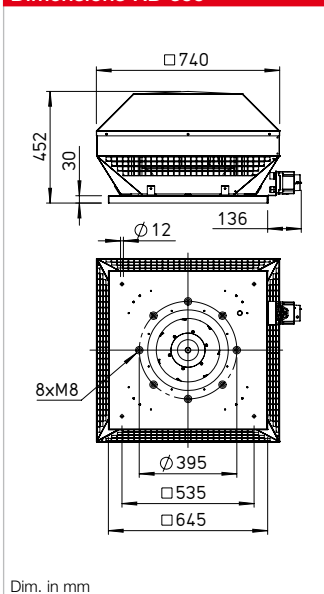
☐ Outlet side sound power.

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.

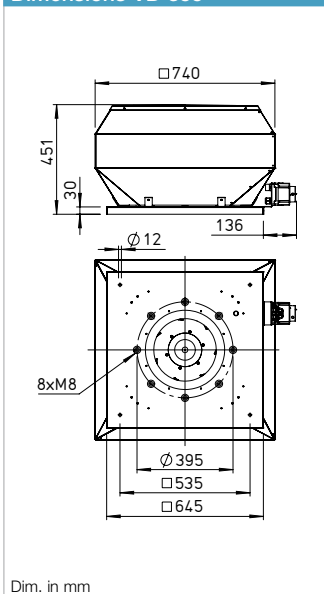
■ **References**

References	Page
Planning information	14 ff.
Technical description	502 f.
Selection table	504 f.
Accessories, details	560 f.
Speed controllers, controllers and switches	601 ff.

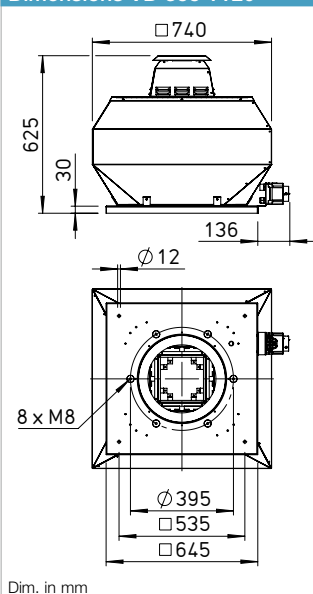
Dimensions RD 355



Dimensions VD 355



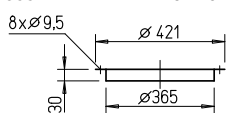
Dimensions VD 355 T120



Dimensions Accessories for RD / VD 355*

Counter flange
FR 355

Ref. no. 01205



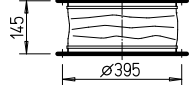
Flanged flexible connector*
STS 355

Ref. no. 01222

For explosion-proof fans

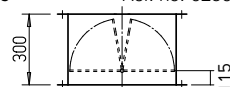
STS 355 Ex

Ref. no. 02504



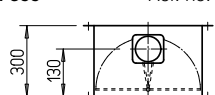
Shutter, automatic
RVS 355

Ref. no. 02595



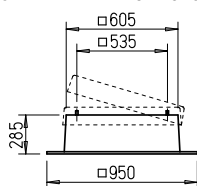
Shutter, motorised
RVM 355

Ref. no. 02579



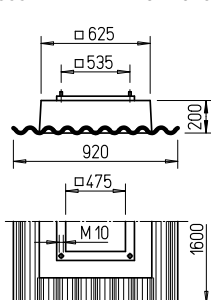
Flat roof base, hinged
FDS 355

Ref. no. 01380



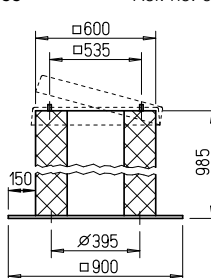
Corrugated roof base, profile 5
WDS 355

Ref. no. 01562



Base silencer, hinged
SSD 355

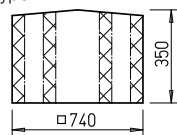
Ref. no. 05024



Hood silencer
HSDV 355

only for type VD

Ref. no. 07480



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.

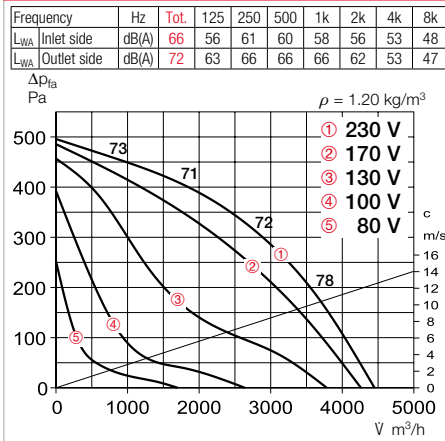
Description of all series

■ **Casing**

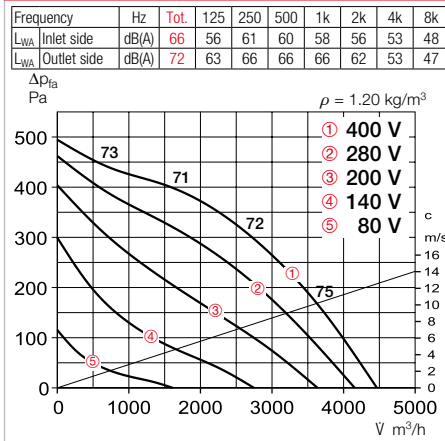
Casing made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel (explosion-proof version inlet nozzle made of aluminium). Base plate with threaded screws for attachment of inlet-side accessories (hole pattern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

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

Performance curves RDW 355/4



Performance curves RDD 355/4

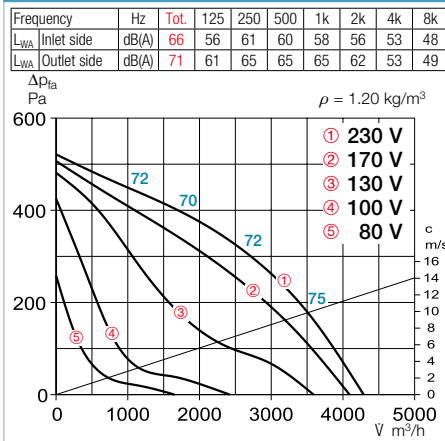


Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net	Motor protection circuit breaker	Speed controller 5-step		
						at rated voltage	with control		at rated voltage	with control			Type	Ref. no.	Type
		min ⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase alternating current, 1~, 230 V, 50 Hz, Capacitor motor, protection category IP54															
RDW 355/4	07323	1400	4480	55	520	2.55	3.4	1128	70	55	27.0	MW	01579	MWS 5 ²⁾	01949
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 355/4	07326	1350	4470	55	460	0.92	1.0	1129	60	60	25.0	MD	05849	RDS 2 ²⁾	01315
🔧 Ex Explosion-proof, II 2G Ex h IIB + H ₂ T3 Gb, Motor Ex e, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44															
RDD 355/4 Ex ¹⁾	07329	1345	4345	58	540	1.21	1.21	1157	40	40	25.0	MSA	01289	TSD 3	01502

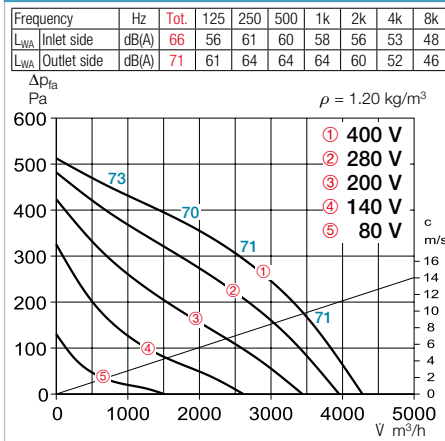
1) Performance diagram at www.HeliosSelect.de.

2) Includes motor protection circuit breaker.

Performance curves VDW 355/4



Performance curves VDD 355/4



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	Ref. no.
		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, Capacitor motor, protection category IP54															
VDW 355/4	07317	1400	4300	54	520	2.55	3.4	1128	60	55	27.0	MW	01579	MWS 5 ²⁾	01949
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 355/4	07318	1350	4290	54	460	0.92	1.0	1129	60	60	25.5	MD	05849	RDS 2 ²⁾	01315
Exp Ex Explosion-proof, II 2G Ex h IIB + H ₂ T3 Gb, Motor Ex e, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44															
VDD 355/4 Ex ¹⁾	07327	1350	4320	57	520	1.17	1.17	1157	40	40	25.5	MSA	01289	TSD 3	01502
T120 Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 355/4 T120 ¹⁾	07336	1400	4597	58	584	1.3	1.4	1264	120	100	34.0	MD	05849	RDS 4 ²⁾	01316

1) Performance diagram at www.HeliosSelect.de.

2) Includes motor protection circuit breaker.