Horiz. outlet RD 355



Also available in version: Ex

Vert. outlet VD 355

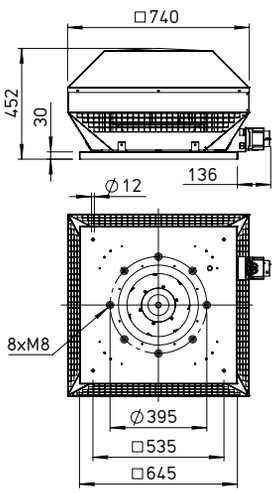


Also available in version: Ex

Vert. outlet VD 355 T120

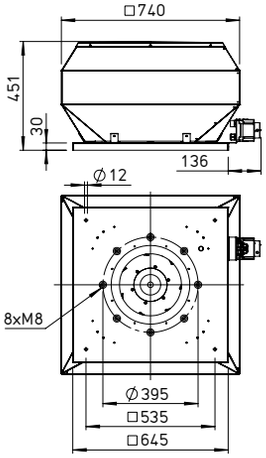


Dimensions RD 355



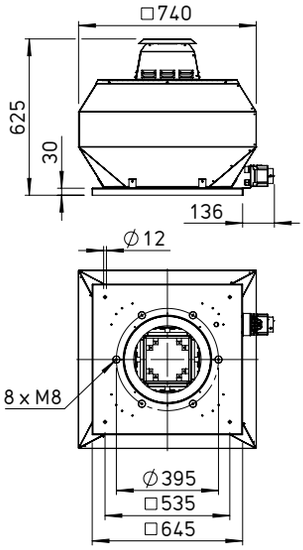
Dim. in mm

Dimensions VD 355



Dim. in mm

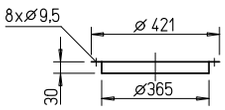
Dimensions VD 355 T120



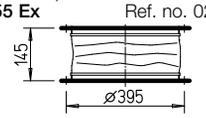
Dim. in mm

Dimensions Accessories for RD / VD 355*

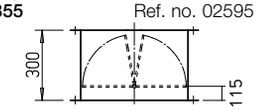
Counter flange
FR 355 Ref. no. 01205



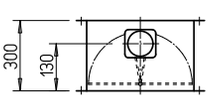
Flanged flexible connector*
STS 355 Ref. no. 01222
For explosion-proof fans
STS 355 Ex Ref. no. 02504



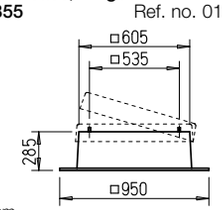
Shutter, automatic
RVS 355 Ref. no. 02595



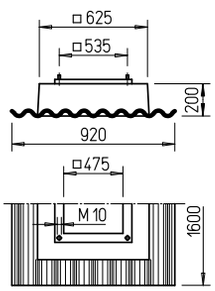
Shutter, motorised
RVM 355 Ref. no. 02579



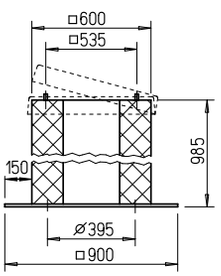
Flat roof base, hinged
FDS 355 Ref. no. 01380



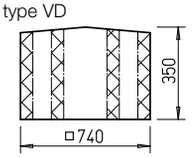
Corrugated roof base, profile 5
WDS 355 Ref. no. 01562



Base silencer, hinged
SSD 355 Ref. no. 05024



Hood silencer
HSDV 355 Ref. no. 07480
only for type VD



Dim. in mm

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

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).

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.

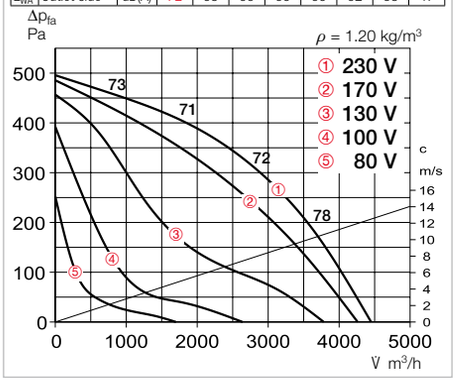
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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

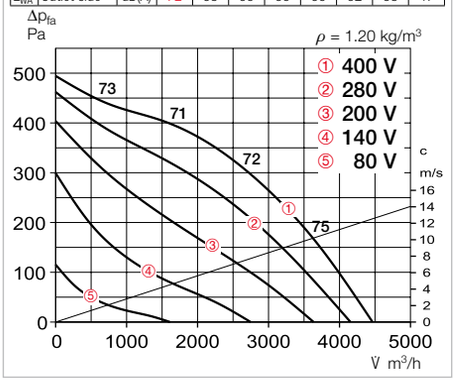
Performance curves RDW 355/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	66	56	61	60	58	56	53	48
L_{WA}	Outlet side	dB(A)	72	63	66	66	66	62	53	47



Performance curves RDD 355/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	66	56	61	60	58	56	53	48
L_{WA}	Outlet side	dB(A)	72	63	66	66	66	62	53	47

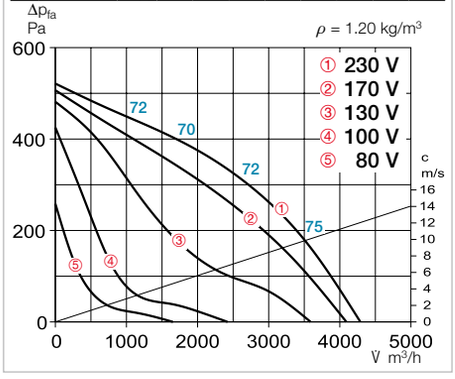


Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
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.

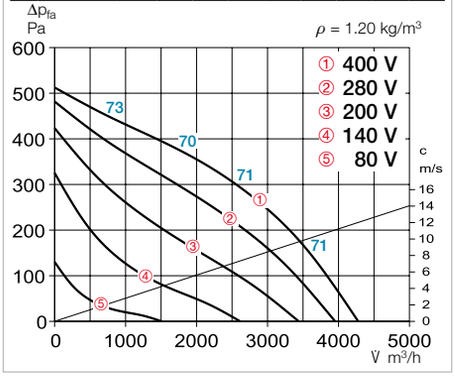
Performance curves VDW 355/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	66	56	61	60	58	56	53	48
L_{WA}	Outlet side	dB(A)	71	61	65	65	65	62	53	49



Performance curves VDD 355/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	66	56	61	60	58	56	53	48
L_{WA}	Outlet side	dB(A)	71	61	64	64	64	60	52	46



Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
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
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.