Horiz. outlet RD 500



Also available in version: Ex

Vert. outlet VD 500

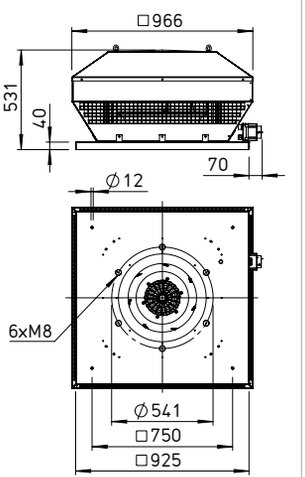


Also available in version: Ex

Vert. outlet VD 500 T120

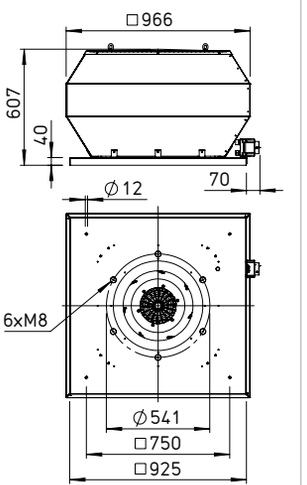


Dimensions RD 500



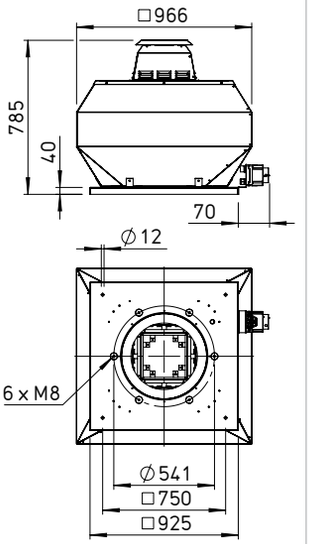
Dim. in mm

Dimensions VD 500



Dim. in mm

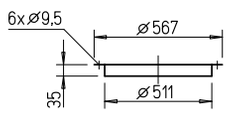
Dimensions VD 500 T120



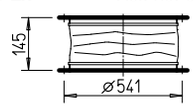
Dim. in mm

Dimensions Accessories for RD / VD 500*

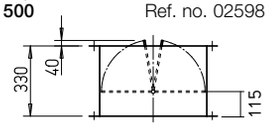
Counter flange
FR 500 Ref. no. 01208



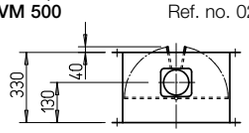
Flanged flexible connector*
STS 500 Ref. no. 01225
For explosion-proof fans
STS 500 Ex Ref. no. 02507



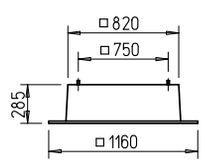
Shutter, automatic
RVS 500 Ref. no. 02598



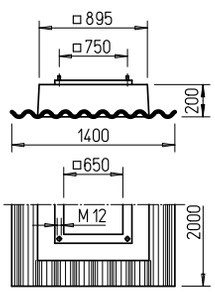
Shutter, motorised
RVM 500 Ref. no. 02582



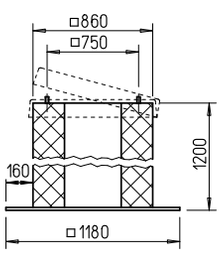
Flat roof base
FDS 500 Ref. no. 01382



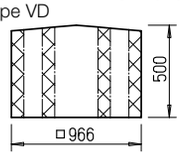
Corrugated roof base, profile 5
WDS 500 Ref. no. 01564



Base silencer
SSD 500 Ref. no. 05017



Hood silencer
HSDV 500 Ref. no. 07483
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 IP54/55. 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.

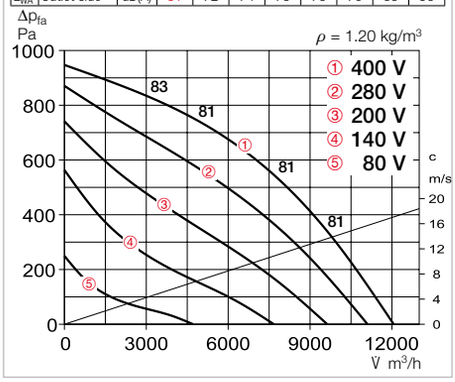
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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.

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.

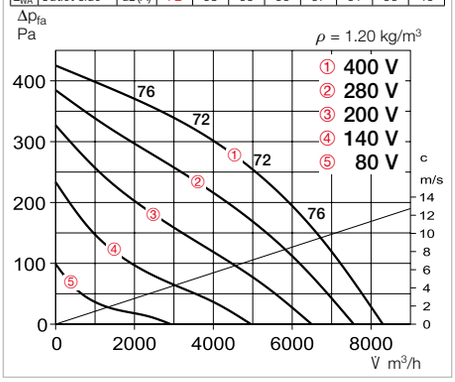
Performance curves RDD 500/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	76	67	71	69	69	66	62	58
L_{WA}	Outlet side	dB(A)	81	72	74	75	76	70	65	58



Performance curves RDD 500/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	67	58	62	60	60	57	53	49
L_{WA}	Outlet side	dB(A)	72	63	65	66	67	61	56	49

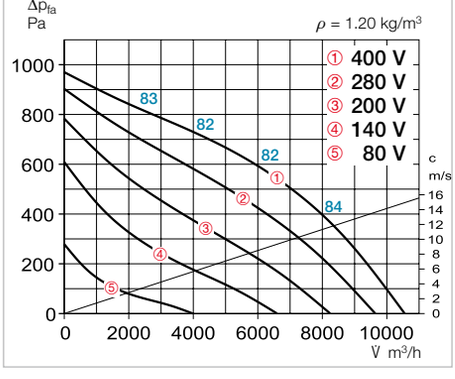


Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker Type	Motor protection circuit breaker Ref. no.	Speed controller 5-step Type	Speed controller 5-step Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg				
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 500/6	07410	885	8300	55	680	1.55	1.55	1129	50	50	55.0	**MD**	05849	**RDS 2**[2]	01315
RDD 500/4	07409	1340	12100	64	2150	4.15	4.25	1129	55	50	58.0	**MD**	05849	**RDS 7**[2]	01578
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 500/6 Ex[1]	07414	840	6550	57.5	570	1.21	1.21	1157	40	40	51.0	**MSA**	01289	**TSD 1.5**	01501
RDD 500/4 Ex[1]	07416	1420	13030	64	2250	4.5	5.8	—	40	40	58.0	**MSA**	01289	**TSD 1.5**	01501

1) Performance diagram at www.HeliosSelect.de. 2) Includes motor protection circuit breaker.

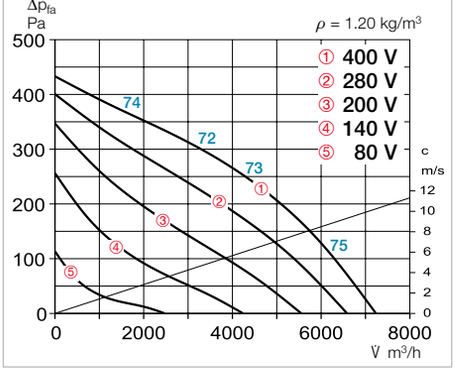
Performance curves VDD 500/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	76	67	71	69	69	66	62	58
L_{WA}	Outlet side	dB(A)	82	71	75	76	76	74	69	61



Performance curves VDD 500/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	67	58	62	60	60	57	53	49
L_{WA}	Outlet side	dB(A)	73	62	66	67	67	65	60	52



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 Type	Motor protection circuit breaker Ref. no.	Speed controller 5-step Type	Speed controller 5-step Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg				
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 500/6	07402	885	7250	56	680	1.55	1.55	1129	50	50	56.0	**MD**	05849	**RDS 2**[2]	01315
VDD 500/4	07401	1340	10550	65	2150	4.15	4.25	1129	55	50	65.0	**MD**	05849	**RDS 7**[2]	01578
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 500/6 Ex[1]	07412	840	5850	56	560	1.2	1.2	1157	40	40	53.0	**MSA**	01289	**TSD 1.5**	01501
VDD 500/4 Ex[1]	07413	1405	9350	66.5	2250	4.3	5.1	1157	40	40	68.0	**MSA**	01289	**TSD 7**	01504
T120 **Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54 or IP55***															
VDD 500/6 T120[1]	07419	945	9568	61	100	2.1	2.1	1264	100	—	62.0	**MSA**	01289	**TSD 7**	01504
VDD 500/4 T120[1]	07418	1465	14078	70	3060	5.8	5.8	1130	95	—	71.0	**MSA**	01289	—	—

1) Performance diagram at www.HeliosSelect.de. 2) Includes motor protection circuit breaker.