Horiz. outlet RD 400



Also available in version: Ex

Vert. outlet VD 400

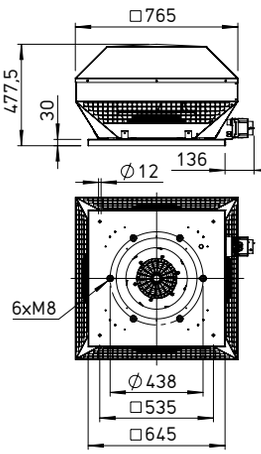


Also available in version: Ex

Vert. outlet VD 400 T120

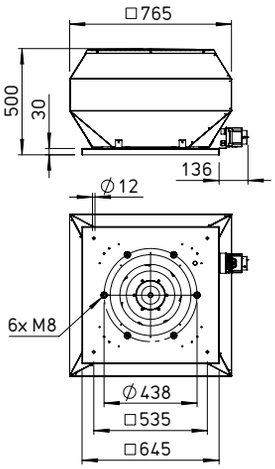


Dimensions RD 400



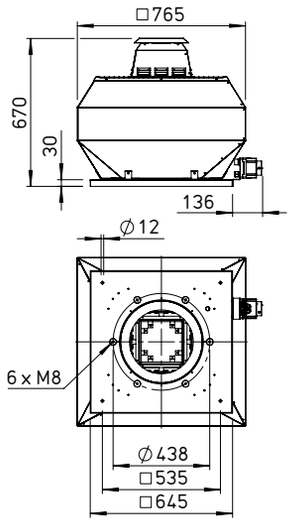
Dim. in mm

Dimensions VD 400



Dim. in mm

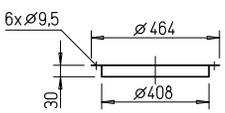
Dimensions VD 400 T120



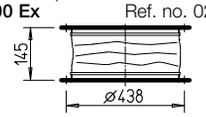
Dim. in mm

Dimensions Accessories for RD / VD 400*

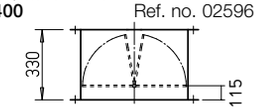
Counter flange
FR 400 Ref. no. 01206



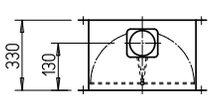
Flanged flexible connector*
STS 400 Ref. no. 01223
For explosion-proof fans
STS 400 Ex Ref. no. 02505



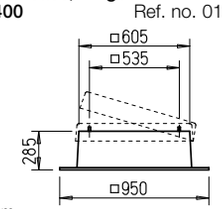
Shutter, automatic
RVS 400 Ref. no. 02596



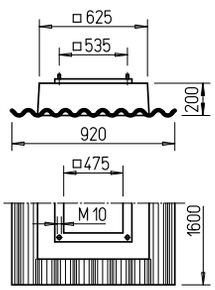
Shutter, motorised
RVM 400 Ref. no. 02580



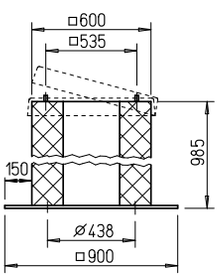
Flat roof base, hinged
FDS 400 Ref. no. 01380



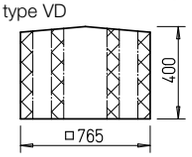
Corrugated roof base, profile 5
WDS 400 Ref. no. 01562



Base silencer, hinged
SSD 400 Ref. no. 05291



Hood silencer
HSDV 400 Ref. no. 07481
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.

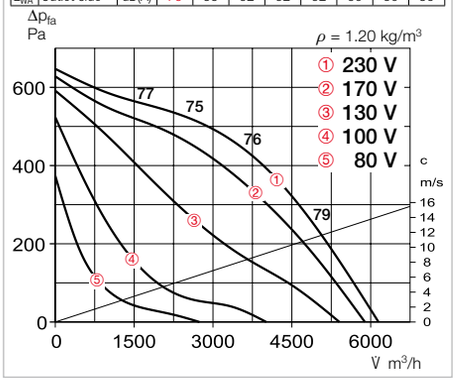
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

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.

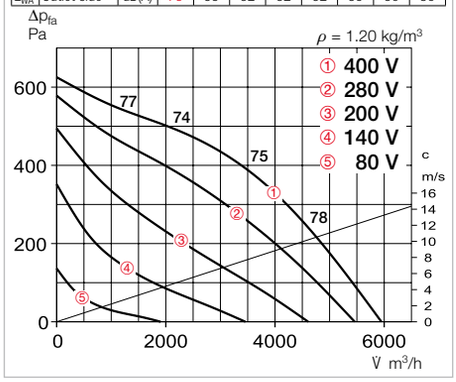
Performance curves RDW 400/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	71	61	65	66	63	62	56	52
L_{WA}	Outlet side	dB(A)	76	55	62	62	62	60	50	39



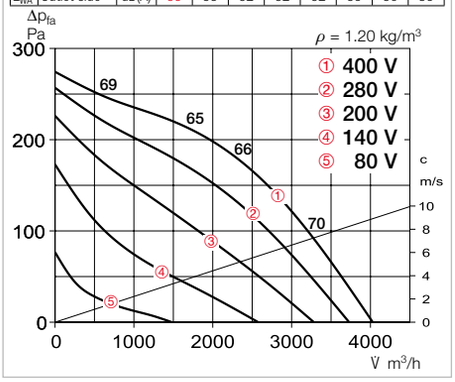
Performance curves RDD 400/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	70	60	64	65	62	61	55	51
L_{WA}	Outlet side	dB(A)	75	55	62	62	62	59	50	39



Performance curves RDD 400/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	61	51	55	56	53	52	46	42
L_{WA}	Outlet side	dB(A)	66	55	62	62	62	59	50	39

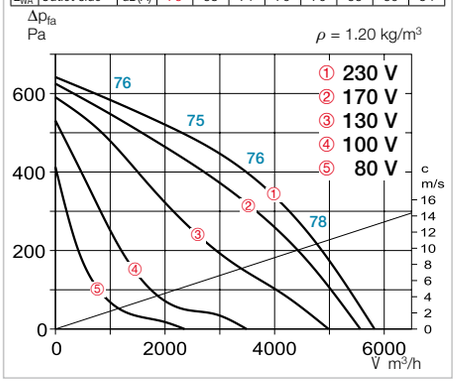


Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step	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 400/4	07350	1405	6150	59	875	4.3	6.0	1128	60	40	33.0	**MW**	01579	**MWS 7.5**[2]	01950
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 400/6	07352	905	4030	49	260	0.6	0.6	1129	60	60	27.0	**MD**	05849	**RDS 1**[2]	01314
RDD 400/4	07351	1375	5970	58	765	1.55	1.6	1129	60	55	27.0	**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 400/6 Ex[1]	07363	930	3840	52	330	0.86	0.86	1157	40	40	24.0	**MSA**	01289	**TSD 1.5**	01501
RDD 400/4 Ex[1]	07358	1395	6030	62.5	950	1.9	2.1	1157	40	40	33.0	**MSA**	01289	**TSD 3.0**	01502

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

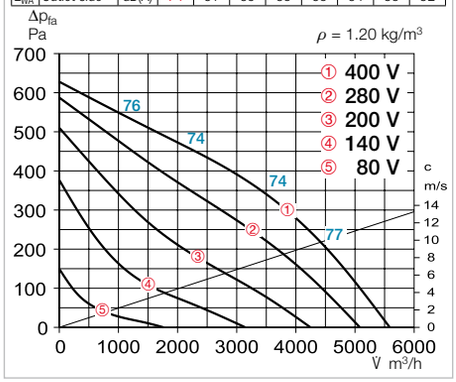
Performance curves VDW 400/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	71	61	65	66	63	62	56	52
L_{WA}	Outlet side	dB(A)	76	63	71	70	70	66	60	54



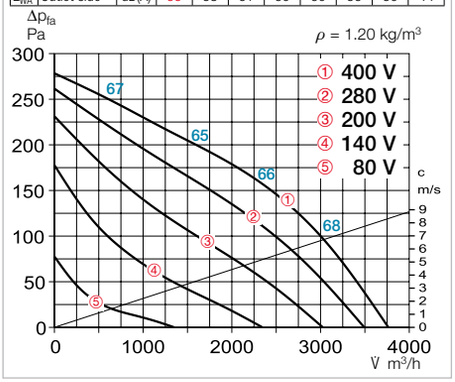
Performance curves VDD 400/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	69	59	63	64	61	60	54	50
L_{WA}	Outlet side	dB(A)	74	61	69	68	68	64	58	52



Performance curves VDD 400/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	61	51	55	56	53	52	46	42
L_{WA}	Outlet side	dB(A)	66	53	61	60	60	56	50	44



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 400/4	07338	1405	5830	59	875	4.3	6.0	1128	60	40	33.0	**MW**	01579	**MWS 7.5**[2]	01950
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 400/6	07343	905	3780	49	260	0.6	0.6	1129	60	60	28.0	**MD**	05849	**RDS 1**[2]	01314
VDD 400/4	07342	1375	5590	57	765	1.55	1.6	1129	60	55	29.5	**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 400/6 Ex[1]	07359	930	3630	51.5	320	0.89	0.89	1157	40	40	25.0	**MSA**	01289	**TSD 1.5**	01501
VDD 400/4 Ex[1]	07353	1375	5350	57	1000	2.1	2.2	1129	40	40	29.5	**MSA**	01289	**TSD 3**	01502
T120 Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 400/6 T120[1]	07366	967	4535	54	353	2.17	1.02	1264	120	100	36.0	**MD**	05849	**TSD 1.5**	01501
VDD 400/4 T120[1]	07370	1400	6824	62	1045	4.2	2.28	1264	120	100	36.0	**MD**	05849	**TSD 5.5**	01503

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