

**Vertical VDR**

■ **Specification**

Vertical discharge centrifugal roof fan.

■ **Casing**

Base plate, casing and other components made of galvanised sheet steel. Base plate supplied with drilled holes in order to connect intake accessories.

■ **Impeller**

High-performance centrifugal impeller with backward curved blades made of polymer, dynamically balanced together with the motor.

■ **Motor**

Totally enclosed ball bearing mounted external rotor motor (IP 44), with moisture protection. Maintenance-free and interference-free.

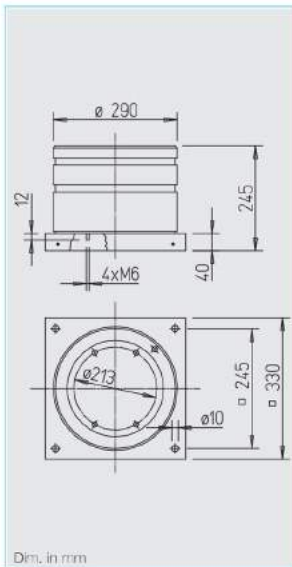
■ **Motor protection**

Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling.

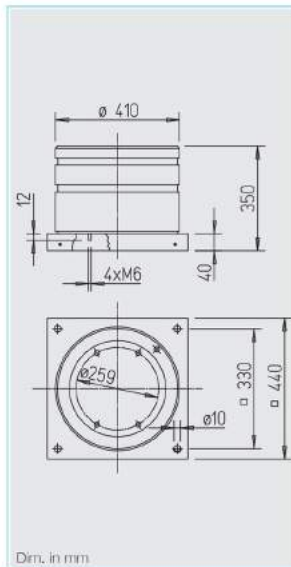
■ **Electrical connection**

Standard isolator on outside of casing, factory-wired.

**VDRW 180**



**VDRW 200**



■ **Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % by electronic speed controller or 5-step controller.

■ **Sound levels**

The sound pressure in dB(A) at a distance of 4 m is specified on the performance curve. The sum levels and spectrum figures are specified for sound pressure and sound power above the performance curve.

■ **Delivery**

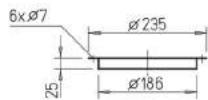
Ready-to-connect, completely pre-assembled in shipping carton.

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**Accessories for Type VDRW 180**

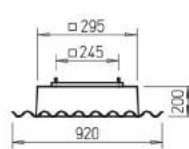
**Counterflange FR 180**

Ref. no. 1200



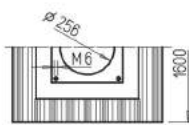
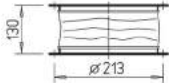
**Corrugated roof base, profile 5 WDS 180**

Ref. no. 1559



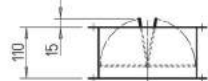
**Flanged flexible connector STS 180**

Ref. no. 1217



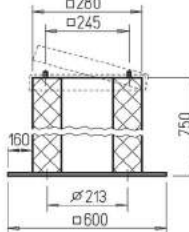
**Automatic backdraught shutter DVS 180**

Ref. no. 1247



**Hinged base attenuator SSD 180**

Ref. no. 5289



**Hinged flat roof base FDS 180**

Ref. no. 1377

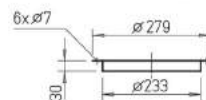


Dim. in mm

**Accessories for Type VDRW 200**

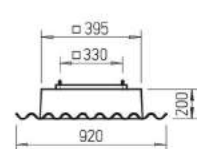
**Counterflange DFR 200**

Ref. no. 1201



**Corrugated roof base, profile 5 WDS 200**

Ref. no. 1560



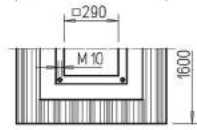
**Flanged flexible connector DSTS 200**

Ref. no. 1218

For ex-proof fans

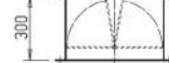
**DSTS 200 Ex**

Ref. no. 2500



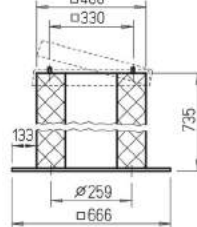
**Automatic backdraught shutter DRVS 200**

Ref. no. 2591



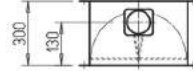
**Hinged base attenuator SSD 200**

Ref. no. 5290



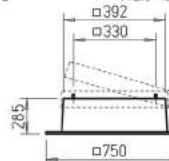
**Motorised backdraught shutter DRVM 200**

Ref. no. 2575



**Hinged flat roof base FDS 200**

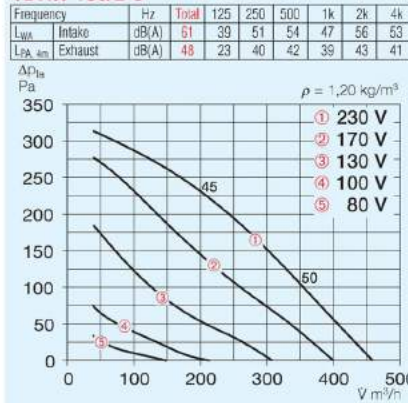
Ref. no. 1378



Dim. in mm

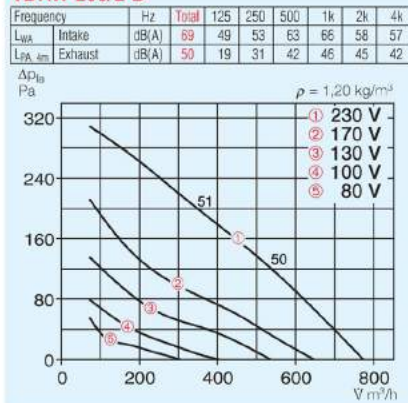


### VDRW 180/2 C

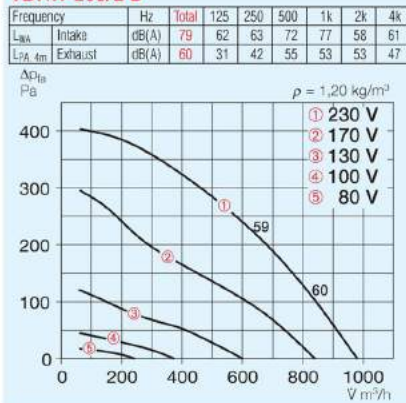


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current at full load	Wiring diagram	max. air flow temperature at full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>											
VDRW 180/2 C	2794	2480	460	48	55	0.26	826	50	5.5	TSW 0,3 3608	ESU 1/ESA 1 0236/0238

### VDRW 200/2 B



### VDRW 200/2 D



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current at full load	Wiring diagram	max. air flow temperature at full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>											
VDRW 200/2 B	2795	2600	770	50	85	0.38	826	40	9.5	TSW 1,5 1495	ESU 1/ESA 1 0236/0238
VDRW 200/2 D	2796	2500	990	60	149	0.57	826	70	10.5	TSW 1,5 1495	ESU 1/ESA 1 0236/0238





**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel. Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of polymer. Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

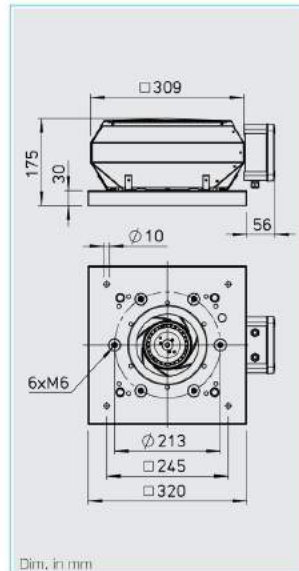
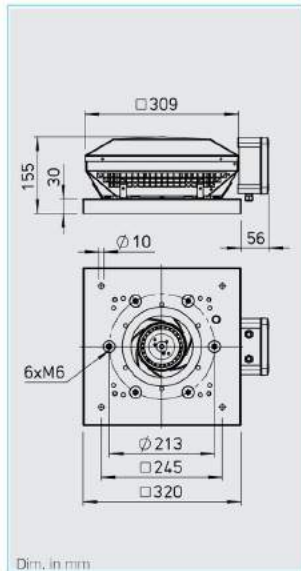
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling.

**■ Electrical connection**

To external terminal box IP 65. Isolator available (see accessories).



**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % by electronic speed controller or 5-step controller. See type table for assignment.

**■ Sound levels**

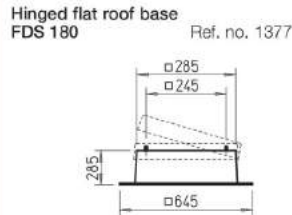
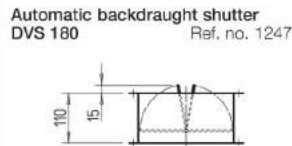
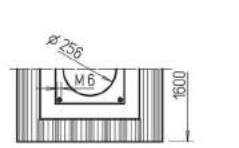
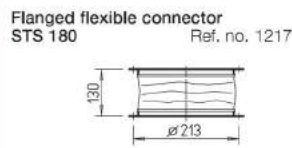
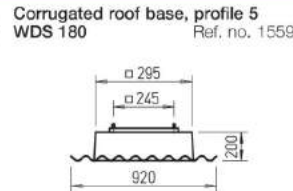
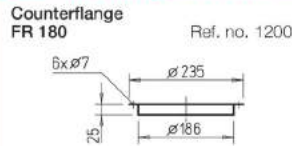
The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

**■ Delivery**

Ready-to-connect, completely pre-assembled in shipping carton.

**Accessories for Type RD / VD**

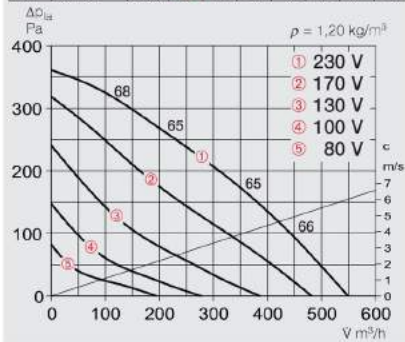


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### RDW 180/2

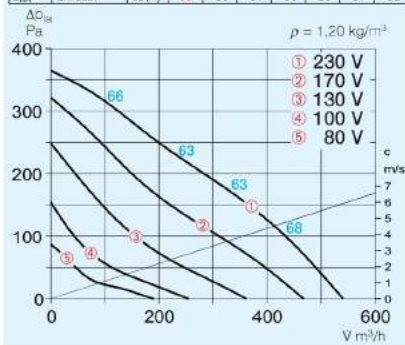
Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	61	37	48	53	56	55	54
L <sub>WA</sub> Exhaust		dB(A)	65	38	52	58	62	57	54



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>												
RDW 180/2	7122	2330	550	48	66	0.3	0.3	923	60	60	4.5	— — TSW 1,5 1495

### VDW 180/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	60	36	47	52	55	54	53
L <sub>WA</sub> Exhaust		dB(A)	63	38	51	56	59	57	52



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>												
VDW 180/2	7120	2330	540	46	66	0.3	0.3	923	60	60	5.0	— — TSW 1,5 1495





**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of galvanised sheet steel (ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

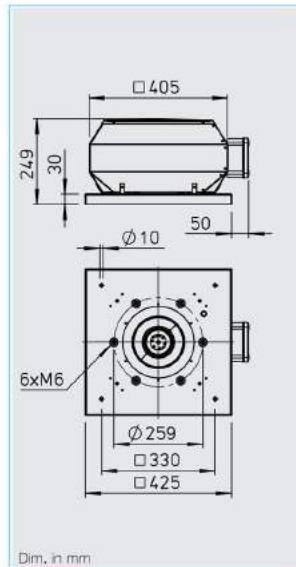
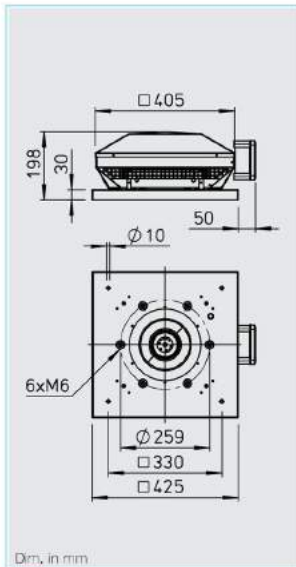
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

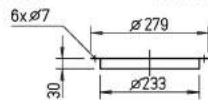
**■ Electrical connection**

To external terminal box IP 65. Isolator available (see accessories).

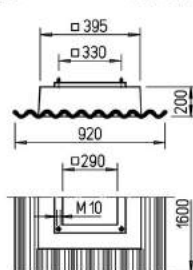


**Accessories for Type RD / VD**

**Counterflange DFR 200** Ref. no. 1201

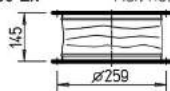


**Corrugated roof base, profile 5 WDS 200** Ref. no. 1560

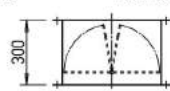


**Flanged flexible connector DSTS 200** Ref. no. 1218

For ex-proof fans **DSTS 200 Ex** Ref. no. 2500



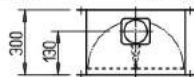
**Automatic backdraught shutter DRVS 200** Ref. no. 2591



**Hinged base attenuator SSD 200** Ref. no. 5290



**Motorised backdraught shutter DRVM 200** Ref. no. 2575



**Hinged flat roof base FDS 200** Ref. no. 1378



**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % by electronic speed controller or 5-step controller. See type table for assignment.

**■ Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

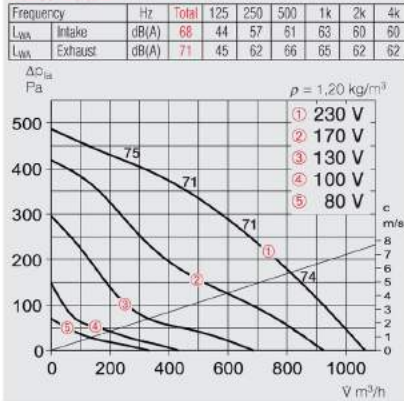
**■ Delivery**

Ready-to-connect, completely pre-assembled in shipping carton.

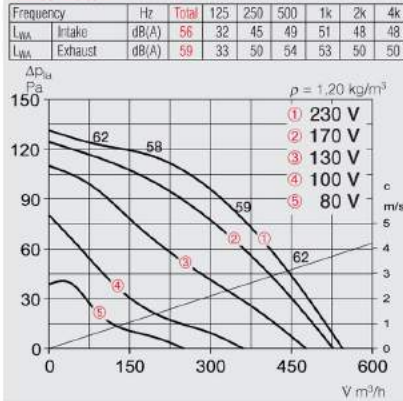
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### RDW 200/2



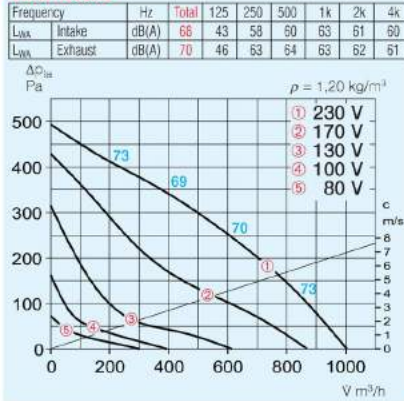
### RDW 200/4



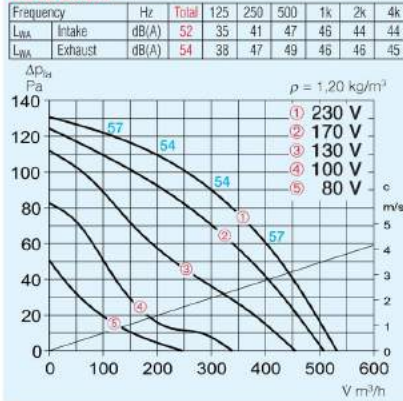
Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>												
RDW 200/4	7177	1375	545	42	34	0.16	0.16	923	70	7.0	—	TSW 1,5 1495
RDW 200/2	7176	2430	1070	54	125	0.56	0.56	923	70	7.5	—	TSW 1,5 1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 200/4 Ex <sup>1)</sup>	7191	1465	770	42	75	0.32	0.32	1129	40	7.0	MSA 1289	TSD 0,8 1500

1) Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)

### VDW 200/2



### VDW 200/4



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>												
VDW 200/4	7134	1375	535	37	34	0.16	0.16	923	70	7.5	—	TSW 1,5 1495
VDW 200/2	7126	2430	1000	53	125	0.56	0.56	923	70	8.0	—	TSW 1,5 1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 200/4 Ex <sup>1)</sup>	7178	1465	750	37	75	0.32	0.32	1129	40	7.5	MSA 1289	TSD 0,8 1500

1) Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)





**Series specification**

■ **Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**Specification for all series**

■ **Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**

High performance backward curved centrifugal impeller made of galvanised sheet steel (ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**

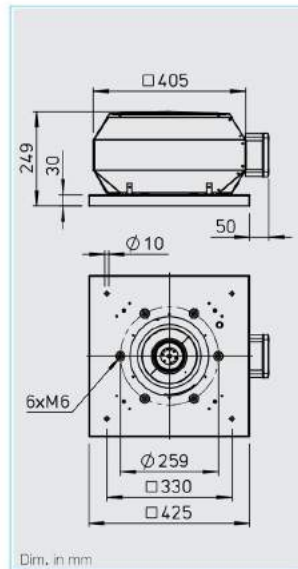
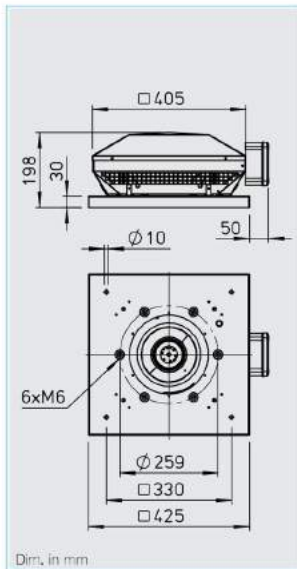
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ **Motor protection**

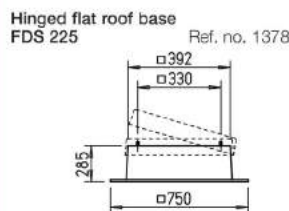
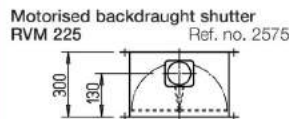
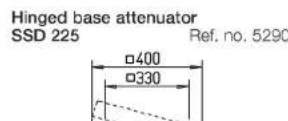
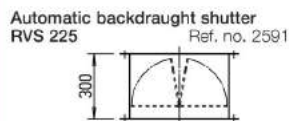
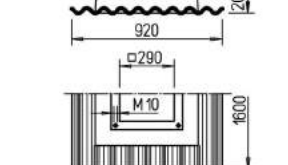
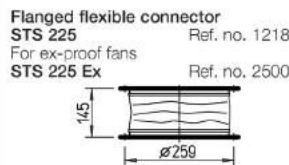
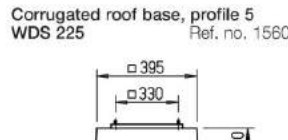
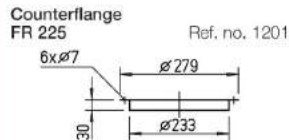
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ **Electrical connection**

To external terminal box IP 65. Isolator available (see accessories).



**Accessories for Type RD / VD**



■ **Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

■ **Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % by electronic speed controller or 5-step controller. See type table for assignment.

■ **Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**

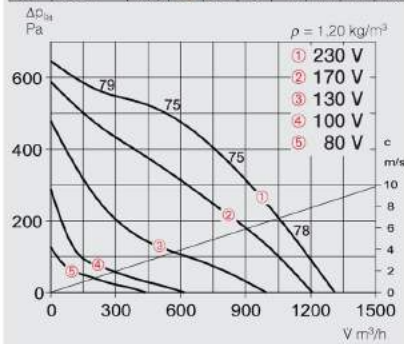
Ready-to-connect, completely pre-assembled in shipping carton.

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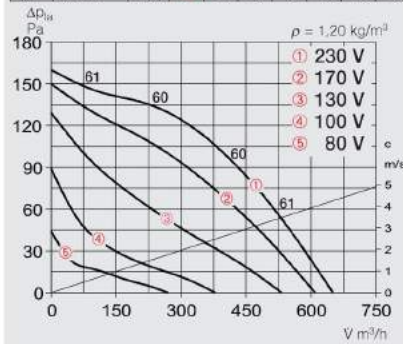
### RDW 225/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	72	46	62	65	67	64	64
L <sub>WA</sub> Exhaust		dB(A)	75	50	65	69	70	67	66



### RDW 225/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	56	39	45	50	51	48	48
L <sub>WA</sub> Exhaust		dB(A)	60	40	51	57	53	49	49

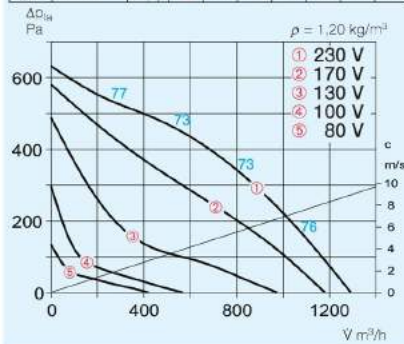


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device		5-step speed switch	
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.	Type	Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>														
RDW 225/4	7235	1340	650	43	43	0.2	0.2	923	70	70	—	—	TSW 1,5	1495
RDW 225/2	7234	2635	1330	58	208	0.9	1	923	70	70	—	—	TSW 1,5	1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>														
RDD 225/4 Ex <sup>1)</sup>	7239	1450	1050	43	80	0.35	0.35	1129	40	40	MSA	1289	TSD 0,8	1500

<sup>1)</sup> Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)

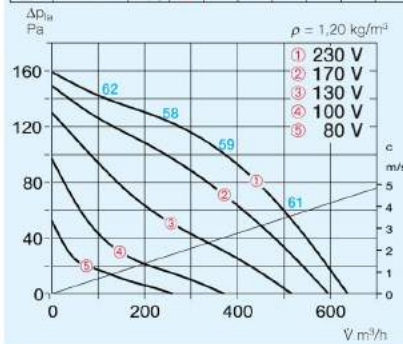
### VDW 225/2

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	71	47	61	64	66	63	63
L <sub>WA</sub> Exhaust		dB(A)	73	50	64	66	67	65	



### VDW 225/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	57	33	47	50	52	49	49
L <sub>WA</sub> Exhaust		dB(A)	59	36	50	52	53	51	



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device		5-step speed switch	
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.	Type	Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>														
VDW 225/4	7221	1340	640	42	43	0.2	0.2	923	70	8.0	—	—	TSW 1,5	1495
VDW 225/2	7196	2635	1295	56	208	0.9	1	923	70	9.0	—	—	TSW 1,5	1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>														
VDD 225/4 Ex <sup>1)</sup>	7237	1450	1025	42	80	0.35	0.35	1129	40	8.0	MSA	1289	TSD 0,8	1500

<sup>1)</sup> Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)







**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of galvanised sheet steel (ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

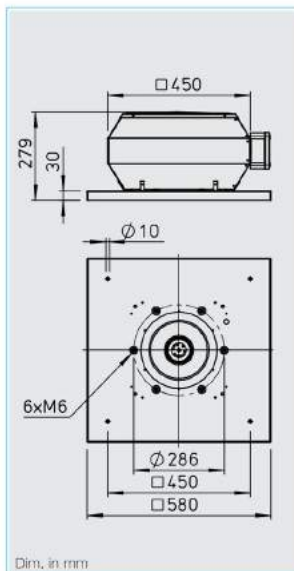
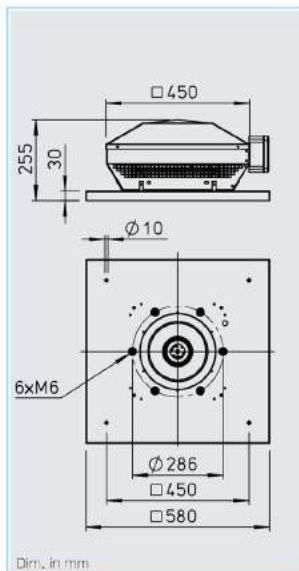
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

**■ Electrical connection**

To external terminal box IP 65. Isolator available (see accessories).



**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % by electronic speed controller or 5-step controller. See type table for assignment.

**■ Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

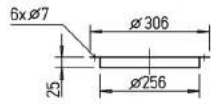
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

**■ Delivery**

Ready-to-connect, completely pre-assembled in shipping carton.

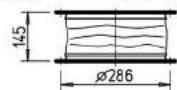
**Accessories for Type RD / VD**

**Counterflange FR 250** Ref. no. 1203

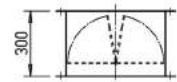


**Flanged flexible connector STS 250** Ref. no. 1220

For ex-proof fans STS 250 Ex Ref. no. 2501



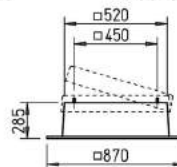
**Automatic backdraught shutter RVS 250** Ref. no. 2592



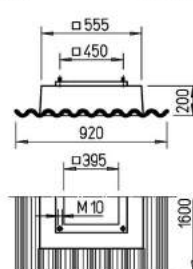
**Motorised backdraught shutter RVM 250** Ref. no. 2576



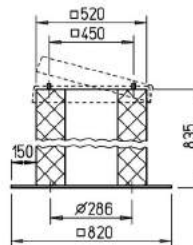
**Hinged flat roof base FDS 250** Ref. no. 1379



**Corrugated roof base, profile 5 WDS 250** Ref. no. 1561



**Hinged base attenuator SSD 250** Ref. no. 5292

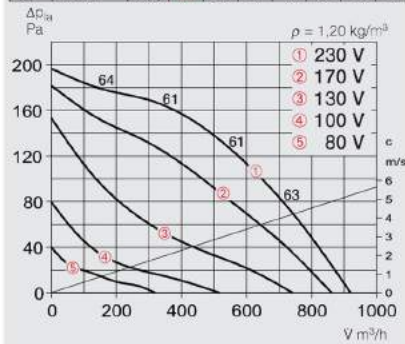


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### RDW 250/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	58	46	48	52	52	50
L <sub>WA</sub> Exhaust		dB(A)	61	50	52	55	54	52

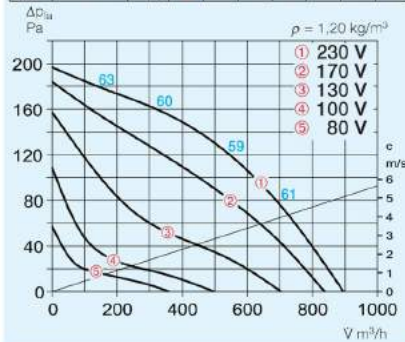


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow full load	temp. control	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>													
RDW 250/4	7264	1340	920	44	63	0.28	0.28	923	70	70	11.0	— —	TSW 1,5 1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>													
RDD 250/4 Ex <sup>1)</sup>	7273	1390	1480	44	121	0.36	0.36	1129	40	40	11.0	MSA 1289	TSD 0,8 1500

1) Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)

### VDW 250/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	58	40	49	51	51	51
L <sub>WA</sub> Exhaust		dB(A)	60	47	52	54	53	52



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow full load	temp. control	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44</b>													
VDW 250/4	7244	1340	900	43	63	0.28	0.28	923	70	70	11.5	— —	TSW 1,5 1495
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>													
VDD 250/4 Ex <sup>1)</sup>	7265	1390	1440	43	121	0.36	0.36	1129	40	40	11.5	MSA 1289	TSD 0,8 1500

1) Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)



**Series specification**

■ **Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

■ **Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**

High performance backward curved centrifugal impeller made of polymer (T120 and ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ **Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ **Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

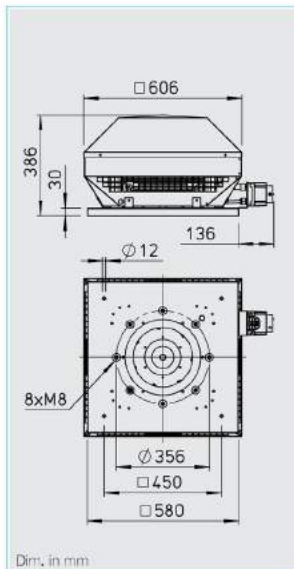
■ **Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

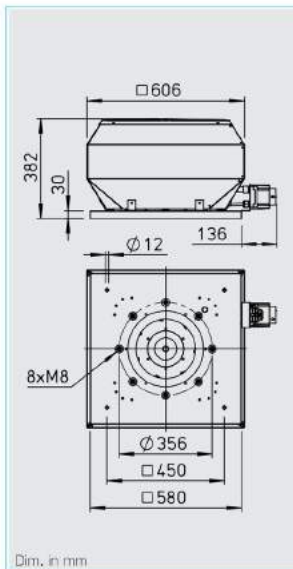
■ **Speed control**

All 1- types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3- types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or

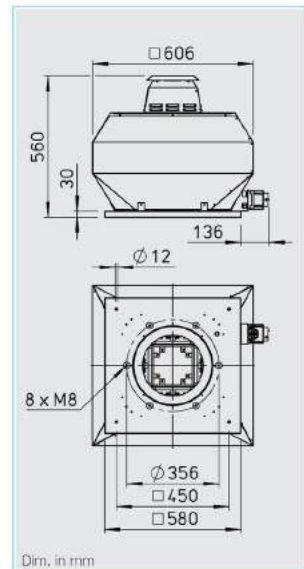
**Horizontal discharge RD**



**Vertical discharge VD**

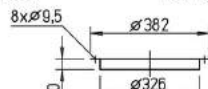


**VD T120**



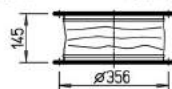
**Accessories for Type RD / VD\***

**Counterflange FR 315** Ref. no. 1204

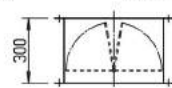


**Flanged flexible connector STS 315** Ref. no. 1221

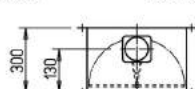
For ex-proof fans  
**STS 315 Ex** Ref. no. 2503



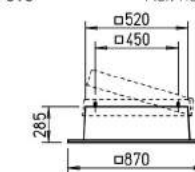
**Automatic backdraught shutter RVS 315** Ref. no. 2594



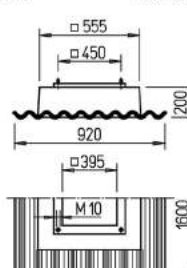
**Motorised backdraught shutter RVM 315** Ref. no. 2578



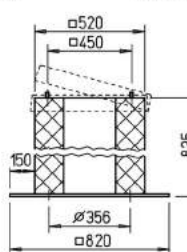
**Hinged flat roof base FDS 315** Ref. no. 1379



**Corrugated roof base, profile 5 WDS 315** Ref. no. 1561

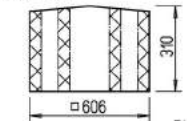


**Hinged base attenuator SSD 315** Ref. no. 5292



**Roof fan attenuator HSDV 315** Ref. no. 7476

only for type VD



five-step controllers. See table for assignment.

■ **Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**

Ready-to-connect, completely pre-assembled in shipping carton.

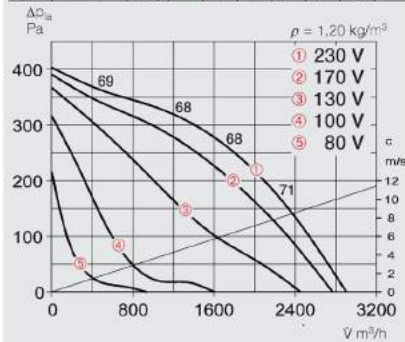
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\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



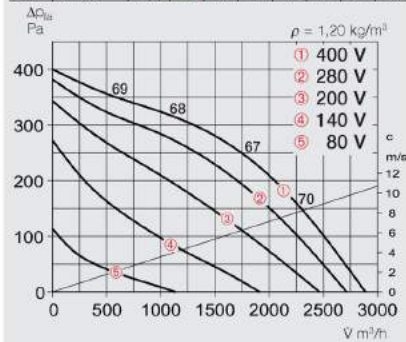
### RDW 315/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	66	54	58	60	58	59	58
L <sub>WA</sub> Exhaust		dB(A)	68	55	62	63	62	58	50



### RDD 315/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	66	53	57	59	57	58	57
L <sub>WA</sub> Exhaust		dB(A)	68	55	61	62	61	57	49

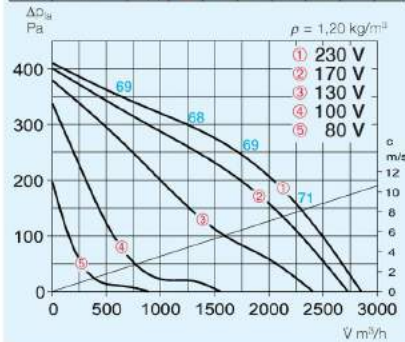


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
RDW 315/4	7287	1385	2900	51	300	1.5	2.0	1128	60	20.5	MW 1579	MWS 3 <sup>2)</sup> 1948
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 315/4	7288	1385	2890	51	290	0.67	0.67	1129	65	19.5	MD 5849	RDS 1 <sup>2)</sup> 1314
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 315/4 Ex <sup>1)</sup>	7303	1380	2980	51	320	0.74	0.74	1129	40	19.5	MSA 1289	TSD 1,5 1501

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device

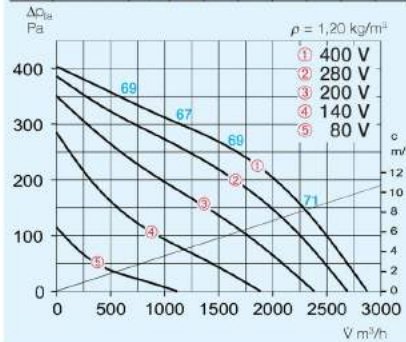
### VDW 315/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	66	53	57	59	57	58	57
L <sub>WA</sub> Exhaust		dB(A)	69	58	61	62	63	58	53



### VDD 315/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	65	53	57	59	57	58	57
L <sub>WA</sub> Exhaust		dB(A)	68	58	61	62	63	58	52



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
VDW 315/4	7279	1385	2860	52	300	1.5	2.0	1128	60	21.0	MW 1579	MWS 3 <sup>2)</sup> 1948
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 315/4	7282	1385	2880	51	290	0.67	0.67	1129	65	20.0	MD 5849	RDS 1 <sup>2)</sup> 1314
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 315/4 Ex <sup>1)</sup>	7293	1360	2930	52	320	0.74	0.74	1129	40	20.0	MSA 1289	TSD 1,5 1501
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 315/4 T120 <sup>1)</sup>	7315	1445	2855	52	350	0.9	1.1	1129	120	25.0	MD 5849	RDS 2 <sup>2)</sup> 1315

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device



**Series specification**

■ **Specification RD**  
Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**  
Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Special feature VD T120**  
Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

■ **Casing**  
Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**  
High performance backward curved centrifugal impeller made of polymer (T120 and ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**  
Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

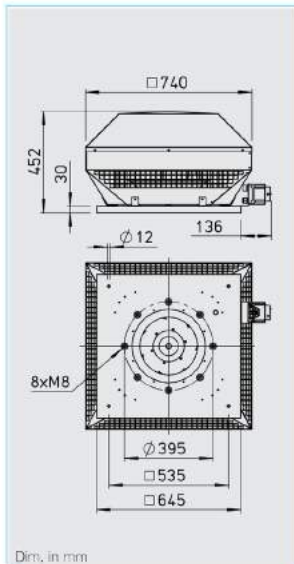
■ **Motor protection**  
Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ **Electrical connection**  
Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

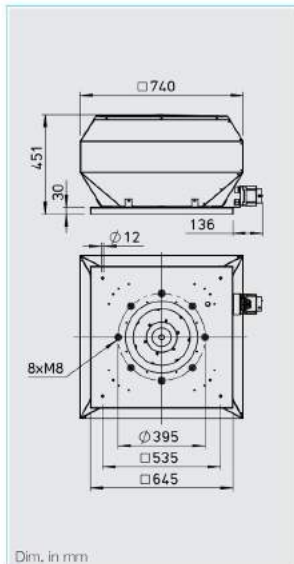
■ **Guard**  
Standard on the exhaust side according to DIN EN ISO 13857.

■ **Speed control**  
All 1- types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3- types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or

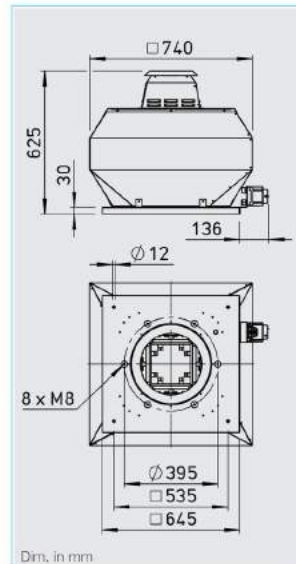
Horizontal discharge RD



Vertical discharge VD

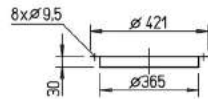


VD T120



**Accessories for Type RD / VD\***

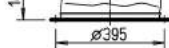
**Counterflange FR 355** Ref. no. 1205



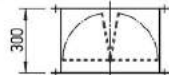
**Flanged flexible connector STS 355** Ref. no. 1222

For ex-proof fans

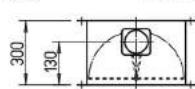
**STS 355 Ex** Ref. no. 2504



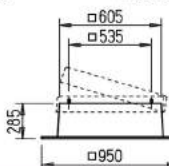
**Automatic backdraught shutter RVS 355** Ref. no. 2595



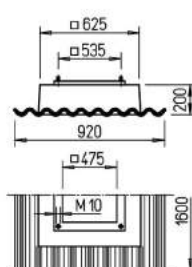
**Motorised backdraught shutter RVM 355** Ref. no. 2579



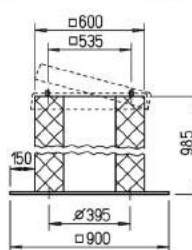
**Hinged flat roof base FDS 355** Ref. no. 1380



**Corrugated roof base, profile 5 WDS 355** Ref. no. 1562

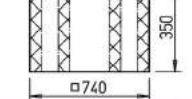


**Hinged base attenuator SSD 355** Ref. no. 5024



**Roof fan attenuator HSDV 355** Ref. no. 7480

only for type VD



five-step controllers. See table for assignment.

■ **Sound levels**  
The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**  
Ready-to-connect, completely pre-assembled in shipping carton.

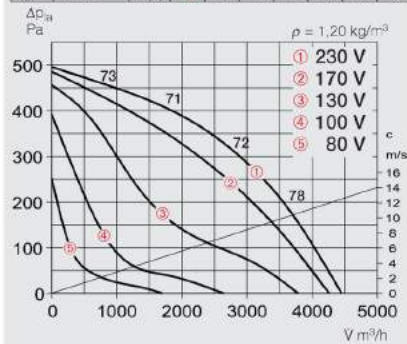
Information	Page
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Technical description	438
Selection chart	441
Accessories, details	485
Speed controller and switch	525 on

\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



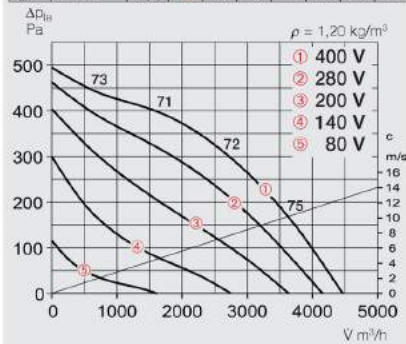
### RDW 355/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
$L_{WA}$ Intake	dB(A)	65	56	61	60	58	56	53
$L_{WA}$ Exhaust	dB(A)	72	63	66	66	66	62	53



### RDD 355/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
$L_{WA}$ Intake	dB(A)	65	56	61	60	58	56	53
$L_{WA}$ Exhaust	dB(A)	72	63	66	66	66	62	53

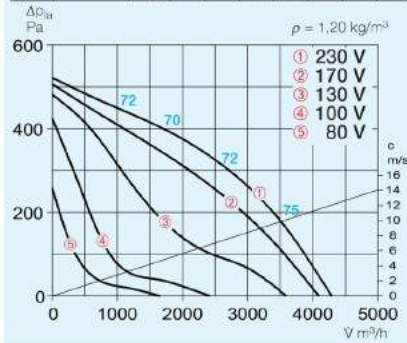


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
RDW 355/4	7323	1400	4480	55	520	2.55	3.4	1128	70	55	MW 1579	MWS 5 <sup>2)</sup> 1949
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 355/4	7326	1350	4470	55	460	0.9	3.5	1129	60	60	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 355/4 Ex <sup>1)</sup>	7329	1360	3960	55	650	1.5	1.5	1129	40	40	MSA 1289	TSD 3 1502

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device

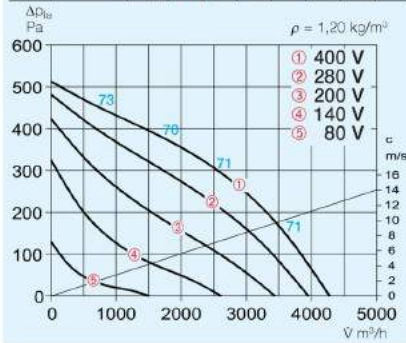
### VDW 355/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
$L_{WA}$ Intake	dB(A)	65	56	61	60	58	56	53
$L_{WA}$ Exhaust	dB(A)	71	61	65	65	65	62	53



### VDD 355/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
$L_{WA}$ Intake	dB(A)	65	56	61	60	58	56	53
$L_{WA}$ Exhaust	dB(A)	71	61	64	64	64	60	52



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
VDW 355/4	7317	1400	4300	54	520	2.55	3.4	1128	70	55	MW 1579	MWS 5 <sup>2)</sup> 1949
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 355/4	7318	1350	4290	54	460	0.9	3.5	1129	60	60	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 355/4 Ex <sup>1)</sup>	7327	1360	3880	54	650	1.5	1.5	1129	40	40	MSA 1289	TSD 3 1502
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 355/4 T120 <sup>1)</sup>	7336	1420	4315	54	540	1.7	1.8	1129	120	100	MD 5849	RDS 4 <sup>2)</sup> 1316

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device



**Series specification**

■ **Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

■ **Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**

High performance backward curved centrifugal impeller made of polymer (T120 and ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ **Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ **Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

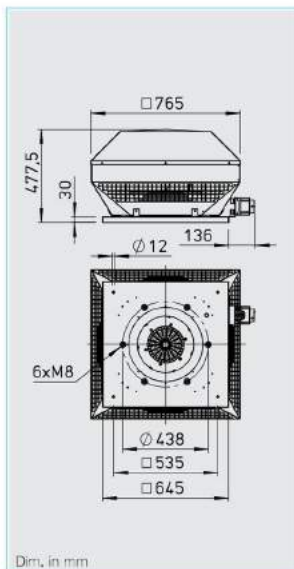
■ **Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

■ **Speed control**

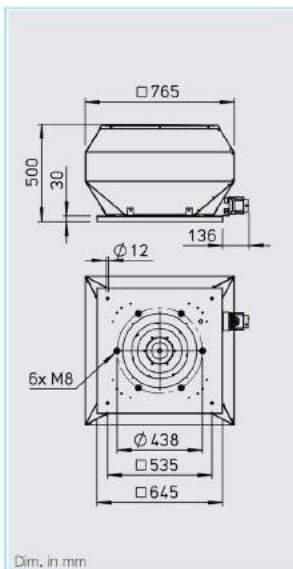
All 1- types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3- types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole sine filter (except ex-proof version) or

Horizontal discharge RD



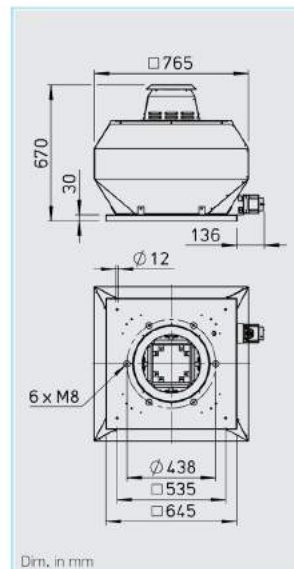
Dim., in mm

Vertical discharge VD



Dim., in mm

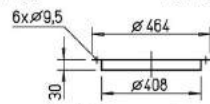
VD T120



Dim., in mm

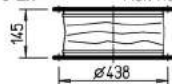
**Accessories for Type RD / VD\***

Counterflange FR 400 Ref. no. 1206

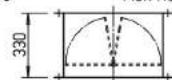


Flanged flexible connector STS 400 Ref. no. 1223

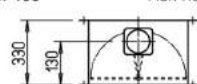
For ex-proof fans STS 400 Ex Ref. no. 2505



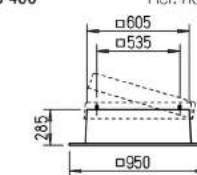
Automatic backdraught shutter RVS 400 Ref. no. 2596



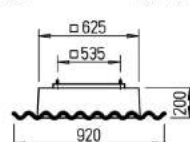
Motorised backdraught shutter RVM 400 Ref. no. 2580



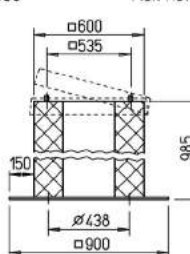
Hinged flat roof base FDS 400 Ref. no. 1380



Corrugated roof base, profile 5 WDS 400 Ref. no. 1562

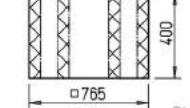


Hinged base attenuator SSD 400 Ref. no. 5291



Roof fan attenuator HSDV 400 Ref. no. 7481

only for type VD



Dim., in mm

five-step controllers. See table for assignment.

■ **Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:

- Sound level intake
- Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**

Ready-to-connect, completely pre-assembled in shipping carton.

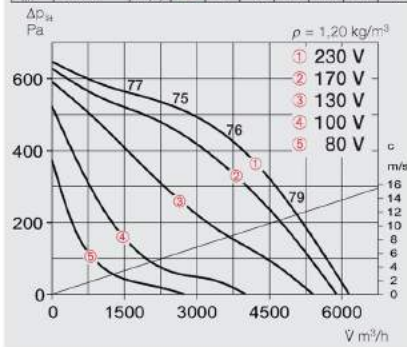
Information	Page
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Accessories, details	485
Speed controller and switch	525 on

\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



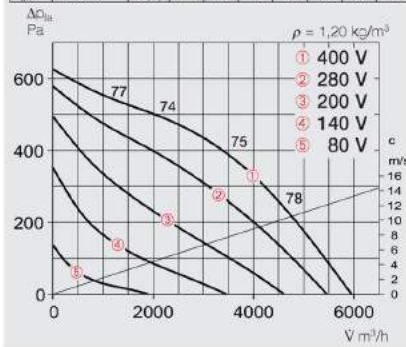
### RDW 400/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	71	61	65	66	63	62	56
L <sub>WA</sub> Exhaust		dB(A)	76	67	70	70	66	59	



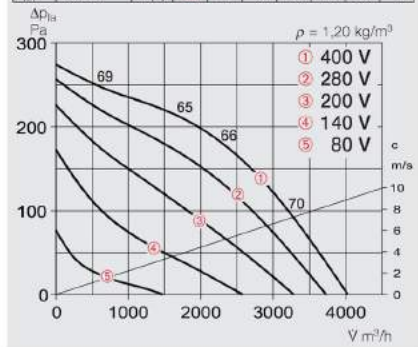
### RDD 400/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	70	60	64	65	62	55
L <sub>WA</sub> Exhaust		dB(A)	75	66	69	69	65	58



### RDD 400/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	61	51	55	56	53	46
L <sub>WA</sub> Exhaust		dB(A)	66	57	60	60	56	49

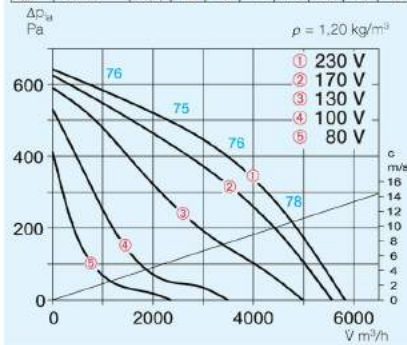


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
RDW 400/4	7350	1405	6150	59	875	4.3	6.0	1128	60	40	MW 1579	MSW 7,5 <sup>2)</sup> 1950
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 400/6	7352	905	4030	49	260	0.6	0.6	1129	60	60	MD 5849	RDS 1 <sup>2)</sup> 1314
RDD 400/4	7351	1375	5970	58	765	1.55	1.6	1129	60	55	MD 5849	RDS 2 <sup>2)</sup> 1315
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 400/6 Ex <sup>1)</sup>	7363	935	4325	49	300	0.77	0.83	1129	40	40	MSA 1289	TSD 1,5 1501
RDD 400/4 Ex <sup>1)</sup>	7358	1375	5700	58	1000	2.1	2.2	1129	40	40	MSA 1289	TSD 1,5 1501

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device

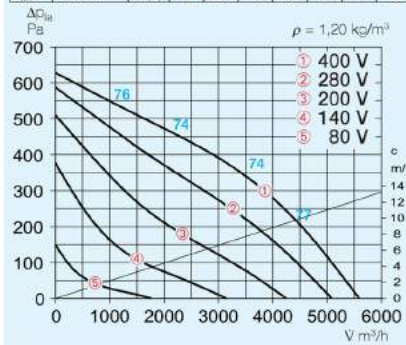
### VDW 400/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	71	61	65	66	63	62	56
L <sub>WA</sub> Exhaust		dB(A)	76	63	71	70	66	60	



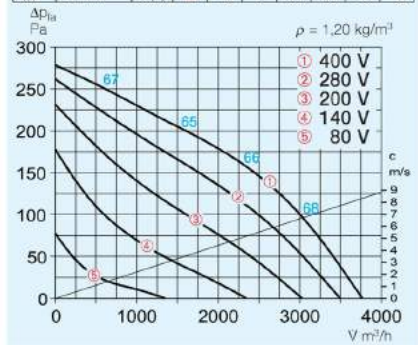
### VDD 400/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	69	59	63	64	61	54
L <sub>WA</sub> Exhaust		dB(A)	74	61	69	68	64	58



### VDD 400/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake		dB(A)	61	51	55	56	53	46
L <sub>WA</sub> Exhaust		dB(A)	66	53	61	60	56	50



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
VDW 400/4	7338	1405	5830	59	875	4.3	6.0	1128	60	40	MW 1579	MWS 7,5 <sup>2)</sup> 1950
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 400/6	7343	905	3780	49	260	0.6	0.6	1129	60	60	MD 5849	RDS 1 <sup>2)</sup> 1314
VDD 400/4	7342	1375	5590	57	765	1.55	1.6	1129	60	55	MD 5849	RDS 2 <sup>2)</sup> 1315
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 400/6 Ex <sup>1)</sup>	7359	935	3865	49	300	0.77	0.83	1129	40	40	MSA 1289	TSD 1,5 1501
VDD 400/4 Ex <sup>1)</sup>	7353	1375	5350	57	1000	2.1	2.2	1129	40	40	MSA 1289	TSD 3 1502
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 400/6 T120 <sup>1)</sup>	7366	930	4170	49	360	1.0	1.0	1129	120	100	MD 5849	RDS 2 <sup>2)</sup> 1315
VDD 400/4 T120 <sup>1)</sup>	7370	1350	6050	57	880	1.8	1.8	1129	120	100	MD 5849	RDS 4 <sup>2)</sup> 1316

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device





**Series specification**

■ **Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

■ **Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**

High performance backward curved centrifugal impeller made of polymer (T120 and ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ **Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ **Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

■ **Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

■ **Speed control**

All 1- types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3- types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or

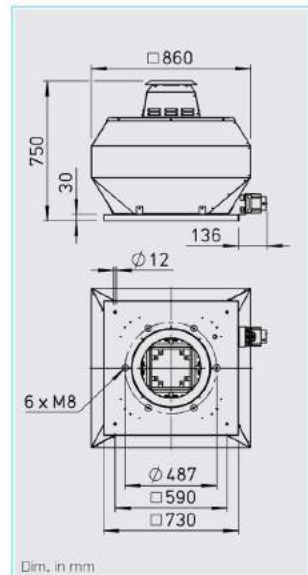
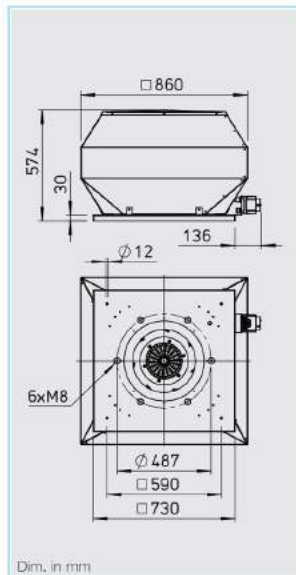
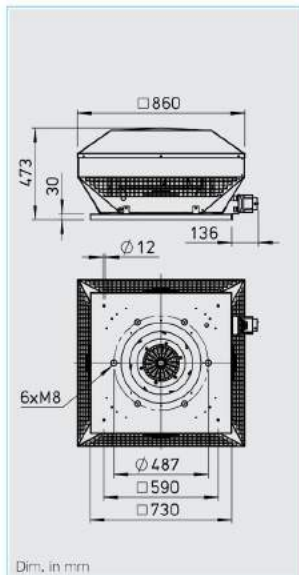
**Horizontal discharge RD**



**Vertical discharge VD**

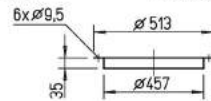


**VD T120**



**Accessories for Type RD / VD\***

**Counterflange FR 450** Ref. no. 1207

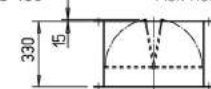


**Flanged flexible connector STS 450** Ref. no. 1224

For ex-proof fans **STS 450 Ex** Ref. no. 2506



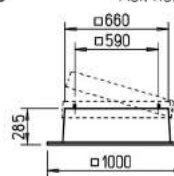
**Automatic backdraught shutter RVS 450** Ref. no. 2597



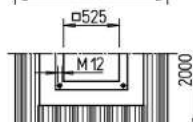
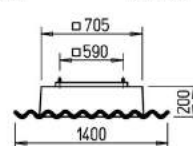
**Motorised backdraught shutter RVM 450** Ref. no. 2581



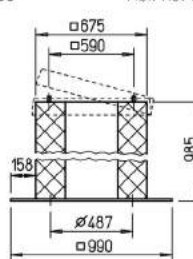
**Hinged flat roof base FDS 450** Ref. no. 1381



**Corrugated roof base, profile 5 WDS 450** Ref. no. 1563

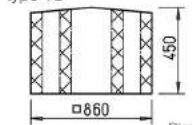


**Hinged base attenuator SSD 450** Ref. no. 5288



**Roof fan attenuator HSDV 450** Ref. no. 7482

only for type VD



five-step controllers. See table for assignment.

■ **Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**

Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

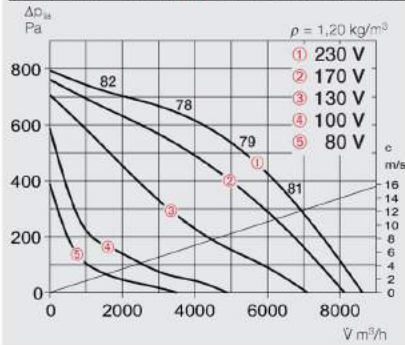
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\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



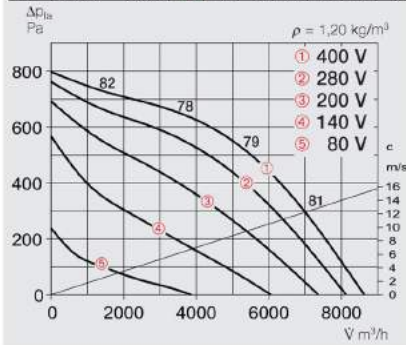
### RDW 450/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	74	63	68	68	67	66	61
L <sub>WA</sub> Exhaust		dB(A)	79	69	70	70	74	69	62



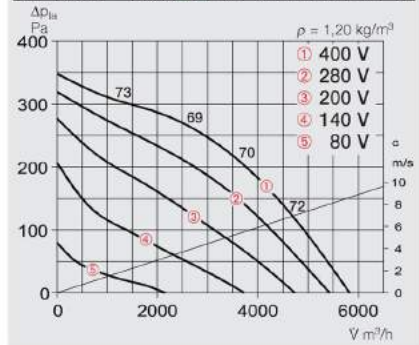
### RDD 450/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	74	63	68	68	67	66	61
L <sub>WA</sub> Exhaust		dB(A)	79	69	70	70	74	69	62



### RDD 450/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	65	54	59	59	58	57	52
L <sub>WA</sub> Exhaust		dB(A)	70	60	61	61	65	60	53

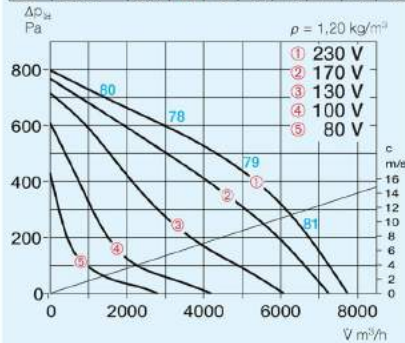


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
RDW 450/4	7377	1385	8650	62	1470	6.6	8.7	1128	60	48,0	MW 1579	MWS 10 <sup>2)</sup> 1946
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 450/6	7385	905	5850	53	425	1.1	1.1	1129	60	41,0	MD 5849	RDS 2 <sup>2)</sup> 1315
RDD 450/4	7384	1400	8650	62	1350	2.6	2.9	1129	70	47,5	MD 5849	RDS 7 <sup>2)</sup> 1316
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 450/6 Ex <sup>1)</sup>	7391	860	5850	53	520	0.95	0.95	1129	40	41,0	MSA 1289	TSD 1,5 1501
RDD 450/4 Ex <sup>1)</sup>	7390	1400	8780	62	1550	3.8	3.8	1129	40	47,5	MSA 1289	TSD 5,5 1503

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device

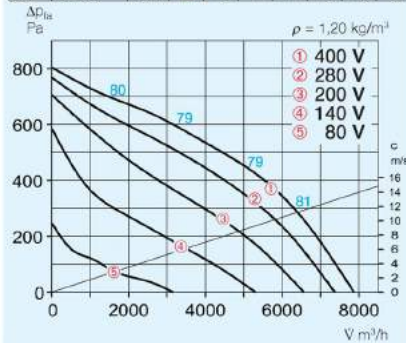
### VDW 450/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	73	62	67	67	66	65	60
L <sub>WA</sub> Exhaust		dB(A)	79	69	70	70	74	69	62



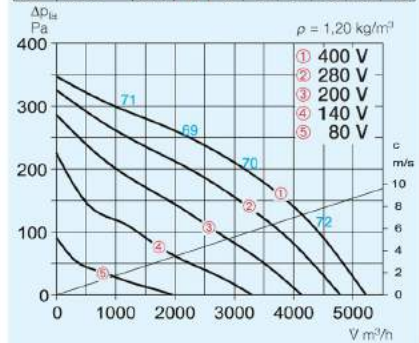
### VDD 450/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	73	62	67	67	66	65	60
L <sub>WA</sub> Exhaust		dB(A)	79	70	71	71	75	70	63



### VDD 450/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	64	53	58	58	57	56	51
L <sub>WA</sub> Exhaust		dB(A)	70	60	61	61	65	60	53



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54</b>												
VDW 450/4	7372	1385	7750	62	1470	6.6	8.7	1128	60	49,0	MW 1579	MWS 10 <sup>2)</sup> 1946
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 450/6	7380	905	5200	53	425	1.1	1.1	1129	60	42,0	MD 5849	RDS 2 <sup>2)</sup> 1315
VDD 450/4	7379	1400	7900	62	1350	2.6	2.9	1129	70	48,5	MD 5849	RDS 7 <sup>2)</sup> 1316
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 450/6 Ex <sup>1)</sup>	7387	860	5230	53	520	0.95	0.95	1129	40	42,0	MSA 1289	TSD 1,5 1501
VDD 450/4 Ex <sup>1)</sup>	7386	1400	7700	62	1550	3.8	3.8	1129	40	48,5	MSA 1289	TSD 5,5 1503
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 450/6 T120 <sup>1)</sup>	7399	900	5570	53	490	1.4	1.4	1129	120	54,0	MD 5849	RDS 2 <sup>2)</sup> 1315
VDD 450/4 T120 <sup>1)</sup>	7398	1390	8600	62	1330	3.8	3.8	1129	120	60,0	MD 5849	RDS 7 <sup>2)</sup> 1578

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device



**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of polymer (T120 and ex-proof version made from aluminium). Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54/55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

**■ Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

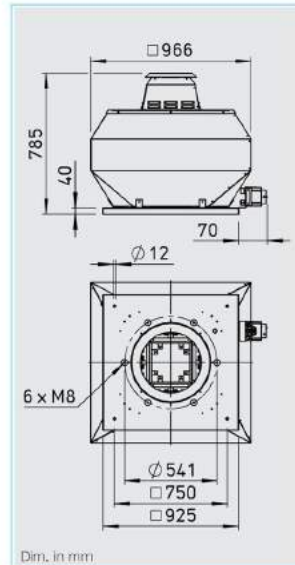
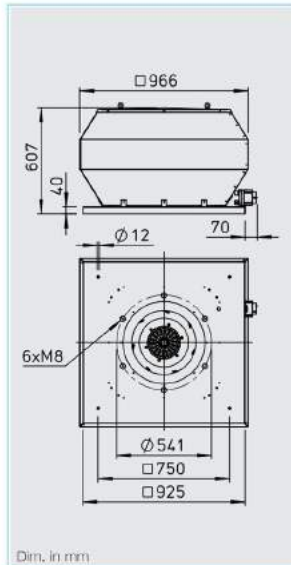
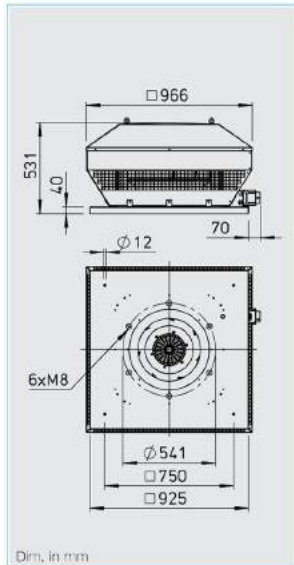
**Horizontal discharge RD**



**Vertical discharge VD**

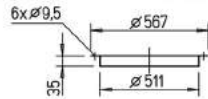


**VD T120**



**Accessories for Type RD / VD\***

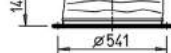
**Counterflange FR 500** Ref. no. 1208



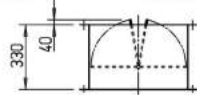
**Flanged flexible connector STS 500** Ref. no. 1225

For ex-proof fans

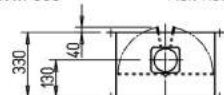
**STS 500 Ex** Ref. no. 2507



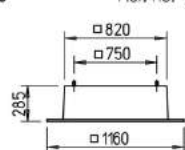
**Automatic backdraught shutter RVS 500** Ref. no. 2598



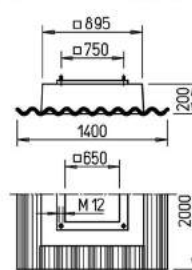
**Motorised backdraught shutter RVM 500** Ref. no. 2582



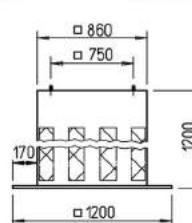
**Flat roof base FDS 500** Ref. no. 1382



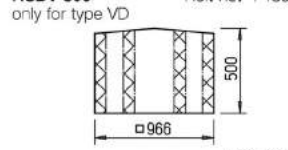
**Corrugated roof base, profile 5 WDS 500** Ref. no. 1564



**Base attenuator SSD 500** Ref. no. 5017



**Roof fan attenuator HSDV 500** Ref. no. 7483



**■ Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

**■ Delivery**

Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

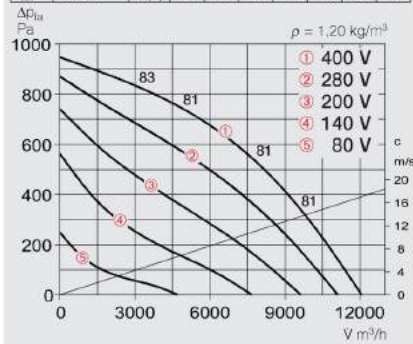
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\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



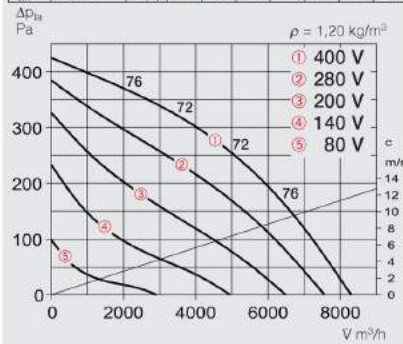
### RDD 500/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	76	67	71	69	69	66	62
L <sub>WA</sub> Exhaust	dB(A)	81	72	74	75	76	70	65



### RDD 500/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	67	58	62	60	60	57	53
L <sub>WA</sub> Exhaust	dB(A)	72	63	65	66	67	61	56

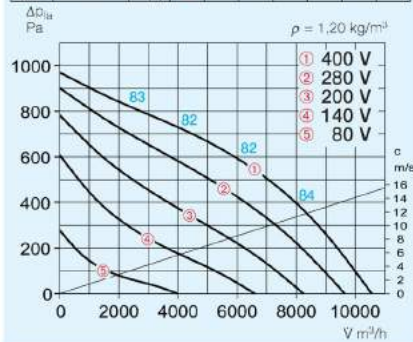


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 500/6	7410	885	8300	55	680	1.55	1.55	1129	50	49.0	MD 5849	RDS 2 <sup>2)</sup> 1315
RDD 500/4	7409	1340	12100	64	2150	4.15	4.25	1129	55	58.0	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 500/6 Ex <sup>1)</sup>	7414	810	8050	55	560	1.1	1.1	1129	40	49.0	MSA 1289	TSD 1,5 1501
RDD 500/4 Ex <sup>1)</sup>	7416	1420	13030	64	2250	4.5	5.8	—	40	58.0	MSA 1289	TSD 7 1504

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device

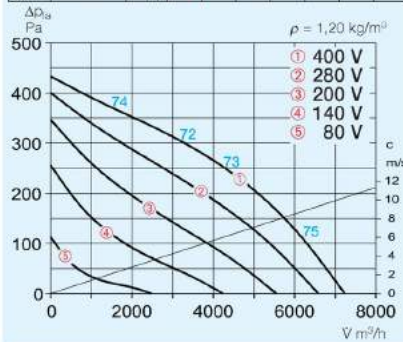
### VDD 500/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	76	67	71	69	69	66	62
L <sub>WA</sub> Exhaust	dB(A)	82	71	75	76	76	74	69



### VDD 500/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	67	58	62	60	60	57	53
L <sub>WA</sub> Exhaust	dB(A)	73	62	66	67	67	65	60



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 500/6	7402	885	7250	56	680	1.55	1.55	1129	50	51.0	MD 5849	RDS 2 <sup>2)</sup> 1315
VDD 500/4	7401	1340	10550	65	2150	4.15	4.25	1129	55	60.0	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 500/6 Ex <sup>1)</sup>	7412	810	6900	56	560	1.1	1.1	1129	40	51.0	MSA 1289	TSD 1,5 1501
VDD 500/4 Ex <sup>1)</sup>	7413	1420	11400	65	2250	4.5	5.8	1129	40	60.0	MSA 1289	TSD 7 1504
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54 or IP 55*</b>												
VDD 500/6 T120 <sup>1)</sup>	7419	910	8250	56	790	1.9	1.9	1129	120	62.0	MD 5849	RDS 4 <sup>2)</sup> 1316
VDD 500/4 T120 <sup>1)</sup> *	7418	1440	13060	65	3000	6	—	1130	120	71.0	MSA 1289	FU-BS 14 5463

1) Performance curve on www.HeliosSelect.de 2) includes full motor protection device



**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of aluminium. Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44). Flange motor with self-ventilation (T120 version) in IP 54/55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

**■ Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

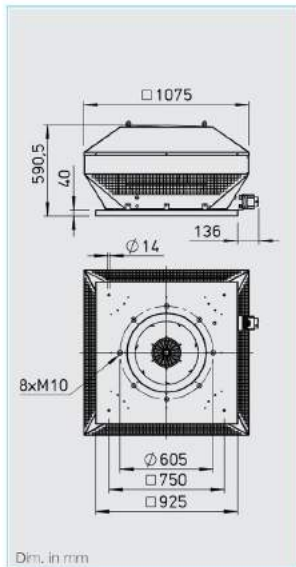
**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

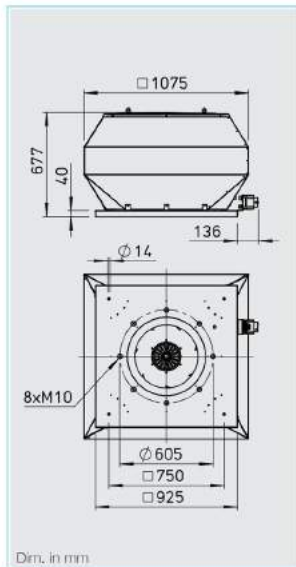
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

**Horizontal discharge RD**



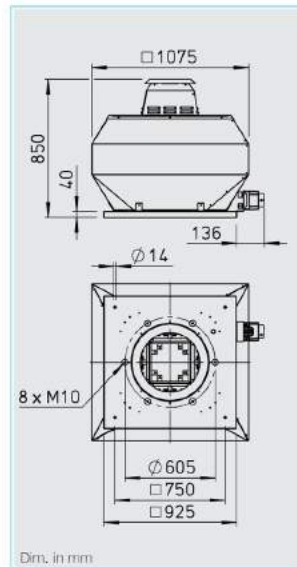
Dim. in mm

**Vertical discharge VD**



Dim. in mm

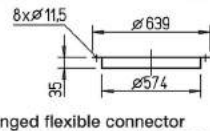
**VD T120**



Dim. in mm

**Accessories for Type RD / VD\***

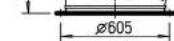
**Counterflange FR 560** Ref. no. 1209



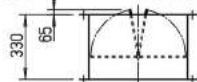
**Flanged flexible connector STS 560** Ref. no. 1226

For ex-proof fans

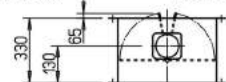
**STS 560 Ex** Ref. no. 2508



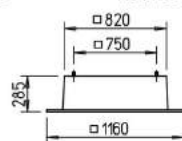
**Automatic backdraught shutter RVS 560** Ref. no. 2599



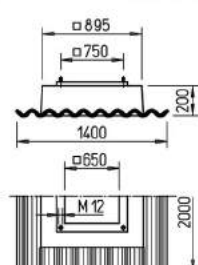
**Motorised backdraught shutter RVM 560** Ref. no. 2583



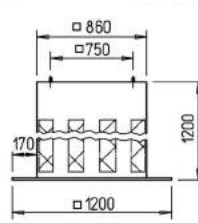
**Flat roof base FDS 560** Ref. no. 1382



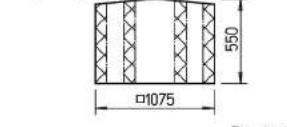
**Corrugated roof base, profile 5 WDS 560** Ref. no. 1564



**Base attenuator SSD 560** Ref. no. 5017



**Roof fan attenuator HSDV 560** Ref. no. 7484



Dim. in mm

**■ Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

**■ Delivery**

Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

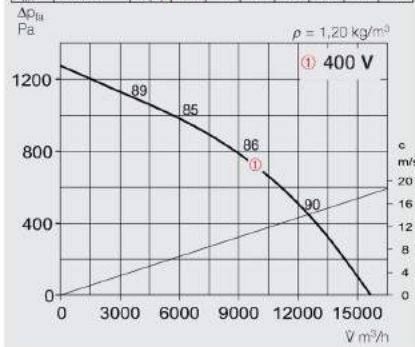
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\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



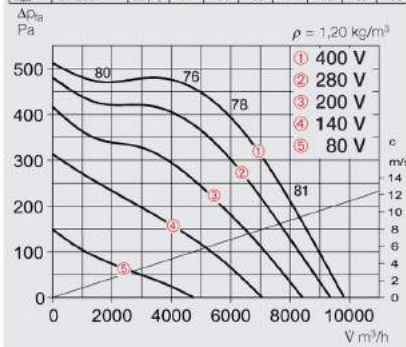
### RDD 560/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	81	70	72	73	74	73	69
L <sub>WA</sub> Exhaust		dB(A)	86	74	77	79	80	77	70



### RDD 560/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	72	62	64	65	66	65	61
L <sub>WA</sub> Exhaust		dB(A)	77	66	69	71	72	69	62

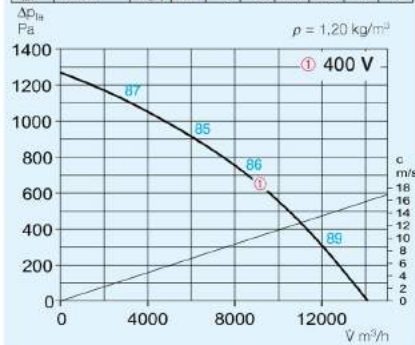


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 560/6	7429	920	9850	60	1180	3.2	3.2	1130	65	65	73.0 MD 5849	RDS 7 <sup>2)</sup> 1578
RDD 560/4	7426	1385	15700	69	4430	6.4	—	1130	55	55	83.0 MD 5849	FU-BS 8,0 5461
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
RDD 560/6 Ex <sup>1)</sup>	7432	850	10620	60	1050	2.0	2.0	1129	40	40	73.0 MSA 1289	TSD 3 1502

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device

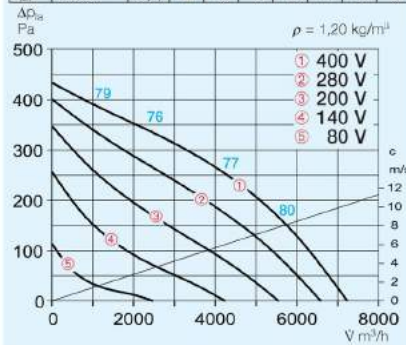
### VDD 560/4

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	82	71	73	74	75	74	70
L <sub>WA</sub> Exhaust		dB(A)	86	75	79	81	80	76	72



### VDD 560/6

Frequency	Hz	Total	125	250	500	1k	2k	4k	
L <sub>WA</sub> Intake		dB(A)	72	61	63	64	65	64	60
L <sub>WA</sub> Exhaust		dB(A)	77	66	70	72	71	67	63



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 560/6	7422	920	9250	60	1180	3.2	3.2	1130	65	65	77.0 MD 5849	RDS 7 <sup>2)</sup> 1578
VDD 560/4	7420	1385	14100	69	4430	6.4	—	1130	55	55	77.0 MD 5849	FU-BS 8,0 5461
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>												
VDD 560/6 Ex <sup>1)</sup>	7430	850	10000	60	1050	2.0	2.0	1129	40	40	92.0 MSA 1289	TSD 3 1502
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54 or IP 55*</b>												
VDD 560/6 T120 <sup>1)</sup>	7439	930	12000	60	1300	3.5	3.5	1129	120	100	92.0 MD 5849	RDS 7 <sup>2)</sup> 1578
VDD 560/4 T120 <sup>1)</sup>	7436	1460	18830	69	5500	11.5	—	1130	120	100	102.0 MSA 1289	FU-BS 8,0 5461

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device



**Series specification**

■ **Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

■ **Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

■ **Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel (inlet cone ex-proof version made from aluminium). Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

■ **Impeller**

High performance backward curved centrifugal impeller made of aluminium. Dynamically balanced according to DIN ISO 1940-1.

■ **Motor**

Totally enclosed speed controllable external rotor motor IP 54 (Ex-proof version in IP 44).

Flange motor with self-ventilation (T120 version) in IP 55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ **Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ **Electrical connection**

Without dismantling the casing, to external isolator (ex-proof version to terminal box) protected to IP 65.

■ **Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

■ **Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

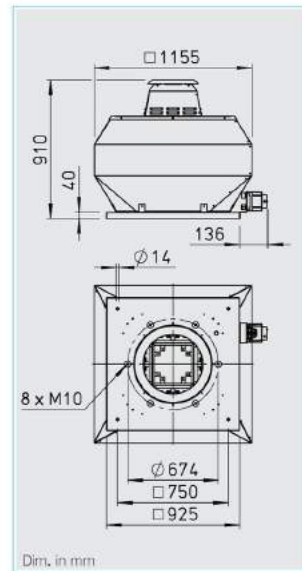
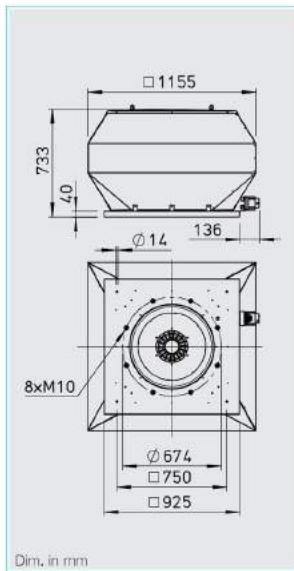
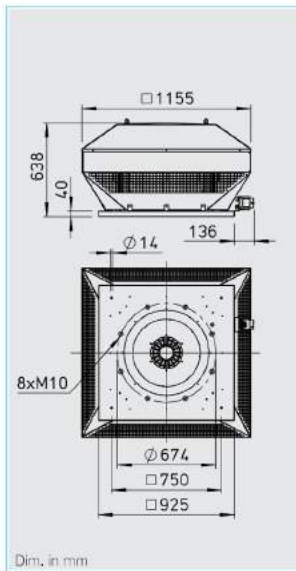
Horizontal discharge RD



Vertical discharge VD

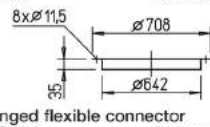


VD T120



**Accessories for Type RD / VD\***

Counterflange FR 630 Ref. no. 1211

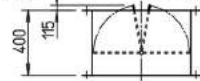


Flanged flexible connector STS 630 Ref. no. 1228

For ex-proof fans STS 630 Ex Ref. no. 2509



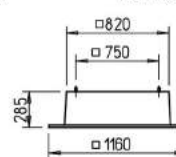
Automatic backdraught shutter RVS 630 Ref. no. 2600



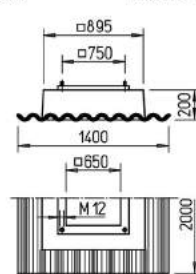
Motorised backdraught shutter RVM 630 Ref. no. 2609



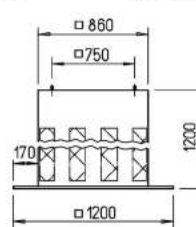
Flat roof base FDS 630 Ref. no. 1382



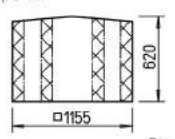
Corrugated roof base, profile 5 WDS 630 Ref. no. 1565



Base attenuator SSD 630 Ref. no. 5017



Roof fan attenuator HSDV 630 Ref. no. 7489 only for type VD



■ **Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:

- Sound level intake
- Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ **Delivery**

Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

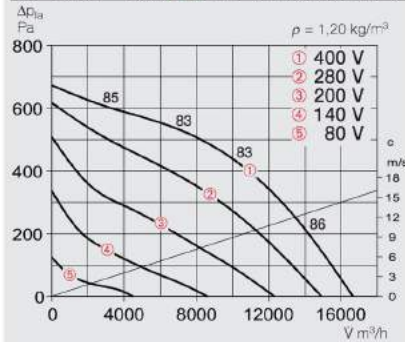
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\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.



### RDD 630/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>wa</sub> Intake	dB(A)	79	62	69	73	74	72	70
L <sub>wa</sub> Exhaust	dB(A)	83	67	72	79	78	74	68

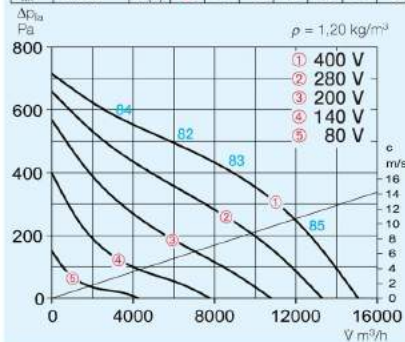


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow full load	temp. control	Weight net	Full motor protection device	5-step speed switch
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>													
RDD 630/6	7447	875	16650	66	2380	4.7	5.2	1129	55	45	87.0	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>													
RDD 630/6 Ex <sup>1)</sup>	7450	945	15660	66	2000	4.4	4.4	1129	40	40	87.0	MSA 1289	TSD 7 1504

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device

### VDD 630/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>wa</sub> Intake	dB(A)	78	61	68	72	73	71	69
L <sub>wa</sub> Exhaust	dB(A)	83	67	72	79	78	74	68



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow full load	temp. control	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type Ref. no.	Type Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>													
VDD 630/6	7441	875	15050	66	2380	4.7	5.2	1129	55	45	90.0	MD 5849	RDS 7 <sup>2)</sup> 1578
<b>Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3</b>													
VDD 630/6 Ex <sup>1)</sup>	7448	945	14100	66	2000	4.4	4.4	1129	40	40	90.0	MSA 1289	TSD 7 1504
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 55</b>													
VDD 630/6 T120 <sup>1)</sup>	7456	980	16600	66	4000	10	—	1130	120	100	105.0	MSA 1289	FU-BS 14 5463

1) Performance curve on www.HeliosSelect.de 2) Includes full motor protection device





Horizontal discharge RD



Vertical discharge VD / T120



**Series specification**

**■ Specification RD**

Centrifugal roof fan with horizontal discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Specification VD**

Centrifugal roof fan with vertical discharge and efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

**■ Special feature VD T120**

Designed for moving process air up to +120 °C. Encapsulated motor located outside of air flow.

**Specification for all series**

**■ Casing**

Casing made from seawater-resistant aluminium with integrated protection. Motor base plate and base plate with inlet cone made from galvanised steel. Base plate with threaded bolt for connection of intake air accessories (hole pattern according to DIN 24155).

**■ Impeller**

High performance backward curved centrifugal impeller made of aluminium. Dynamically balanced according to DIN ISO 1940-1.

**■ Motor**

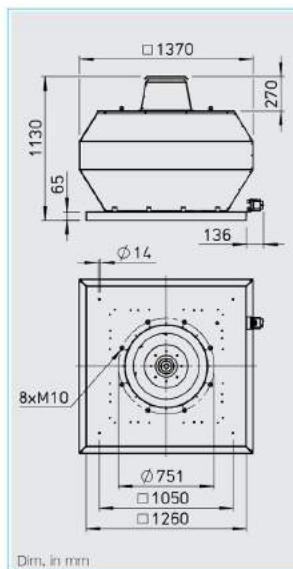
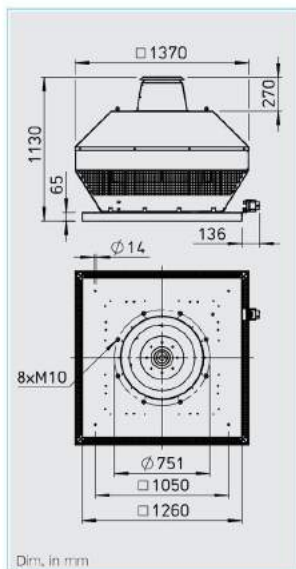
Totally enclosed speed controllable IEC standard motor with self-ventilation IP 55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

**■ Motor protection**

Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

**■ Electrical connection**

Without dismantling the casing, to external isolator protected to IP 65.



**■ Guard**

Standard on the exhaust side according to DIN EN ISO 13857.

**■ Speed control**

All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter.

**■ Sound levels**

The sum levels and spectrum figures are specified above the performance curve for:  
– Sound level intake  
– Sound level exhaust

The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

**■ Delivery**

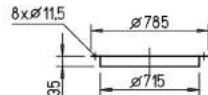
Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

**Accessories for Type RD / VD\***

**Counterflange**

FR 710

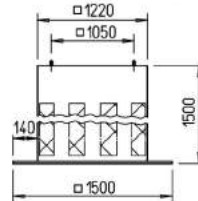
Ref. no. 1212



**Base attenuator**

SSD 710

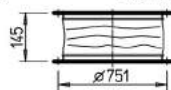
Ref. no. 5287



**Flanged flexible connector**

STS 710

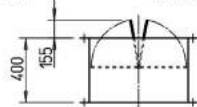
Ref. no. 1229



**Automatic backdraught shutter**

RVS 710

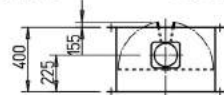
Ref. no. 2801



**Motorised backdraught shutter**

RVM 710

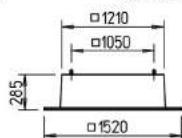
Ref. no. 2610



**Flat roof base**

FDS 710

Ref. no. 6658



Dim. in mm

\* Accessory VD T120 see installation accessories p. 485 Other accessories upon request.

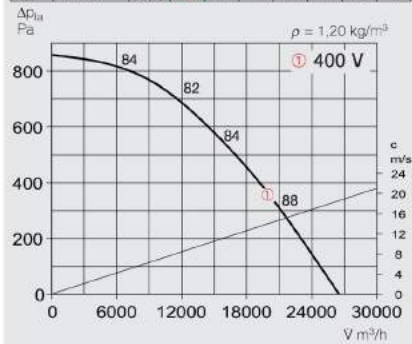
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### RDD 710/6

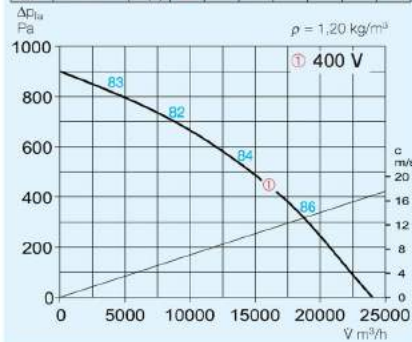
Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	79	68	71	71	72	74	68
L <sub>WA</sub> Exhaust	dB(A)	83	71	73	76	77	78	70



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
RDD 710/6	7460	905	26500	66	5500	12.2	—	1130	50	112.0	MSA	1289
											FU-BS 14	5463

### VDD 710/6

Frequency	Hz	Total	125	250	500	1k	2k	4k
L <sub>WA</sub> Intake	dB(A)	78	67	70	70	71	73	67
L <sub>WA</sub> Exhaust	dB(A)	83	71	73	76	77	78	70



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54</b>												
VDD 710/6	7458	905	24000	66	5500	12.2	—	1130	50	115.0	MSA	1289
											FU-BS 14	5463
<b>Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 55</b>												
VDD 710/6 T120 <sup>1)</sup>	7466	965	24000	66	5500	12.2	—	1130	120	130.0	MSA	1289
											FU-BS 14	5463

<sup>1)</sup> Performance curve on [www.HeliosSelect.de](http://www.HeliosSelect.de)

