Horizontal discharge RD

Vertical discharge VD

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

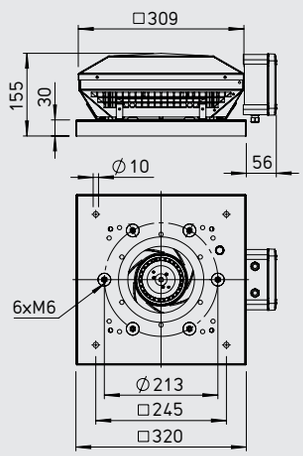
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

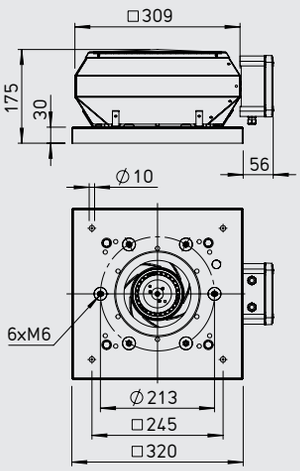
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling.

■ Electrical connection

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



Dim. in mm



Dim. in mm

■ 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

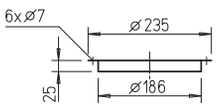
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

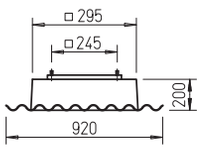
Ready-to-connect, completely pre-assembled in shipping carton.

Accessories for Type RD / VD

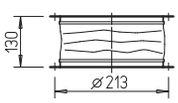
Counterflange
FR 180 Ref. no. 1200

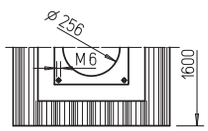


Corrugated roof base, profile 5
WDS 180 Ref. no. 1559

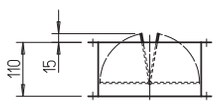


Flanged flexible connector
STS 180 Ref. no. 1217

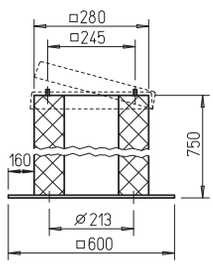




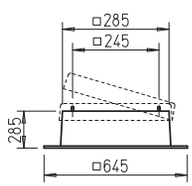
Automatic backdraught shutter
DVS 180 Ref. no. 1247



Hinged base attenuator
SSD 180 Ref. no. 5289



Hinged flat roof base
FDS 180 Ref. no. 1377

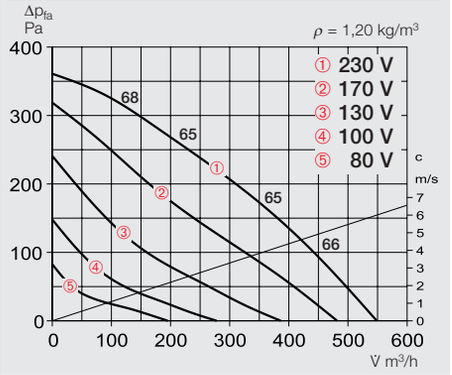


Dim. in mm

Information	Page
Information for planning	10 on
Technical description	438
Selection chart	441
Accessories, details	485
Speed controller and switch	525 on

RDW 180/2

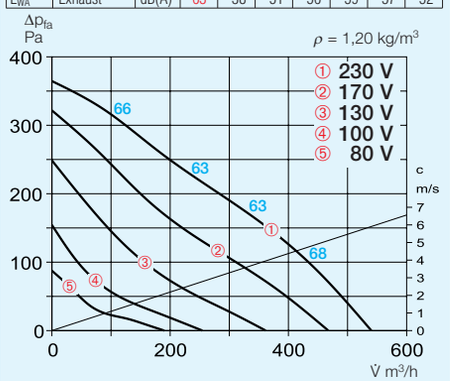
Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	61	37	48	53	56	55	54
L_{WA}	Exhaust	dB(A)	65	38	52	58	62	57	54



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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min-1	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
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_{WA}	Intake	dB(A)	60	36	47	52	55	54	53
L_{WA}	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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min-1	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
VDW 180/2	7120	2330	540	46	66	0.3	0.3	923	60	60	5.0	—	—	**TSW 1,5**	1495

Horizontal discharge RD

Vertical discharge VD

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

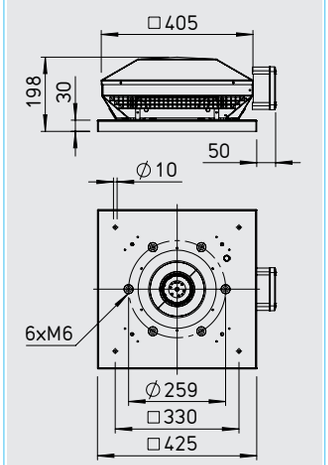
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

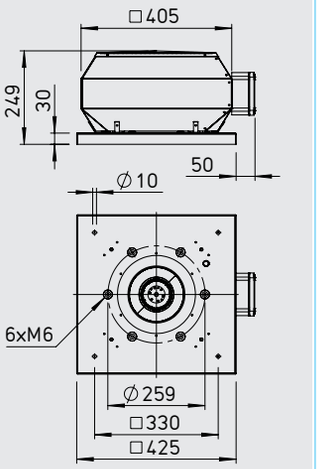
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ Electrical connection

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



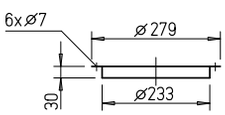
Dim. in mm



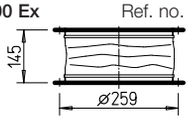
Dim. in mm

Accessories for Type RD / VD

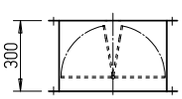
Counterflange
DFR 200 Ref. no. 1201



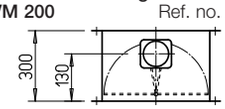
Flanged flexible connector
DSTS 200 Ref. no. 1218
For ex-proof fans
DSTS 200 Ex Ref. no. 2500



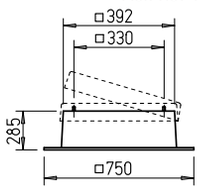
Automatic backdraught shutter
DRVS 200 Ref. no. 2591



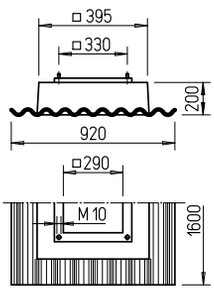
Motorised backdraught shutter
DRVM 200 Ref. no. 2575



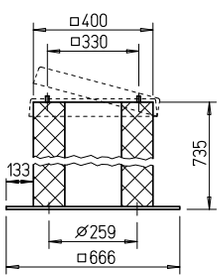
Hinged flat roof base
FDS 200 Ref. no. 1378



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



Hinged base attenuator
SSD 200 Ref. no. 5290



Dim. in mm

■ 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

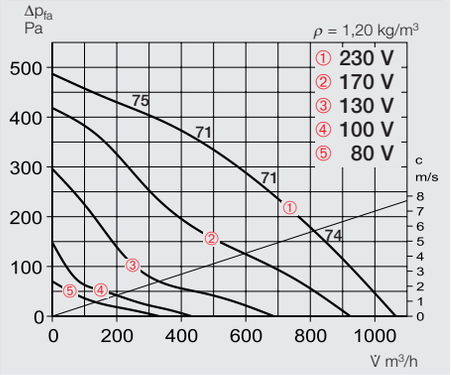
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

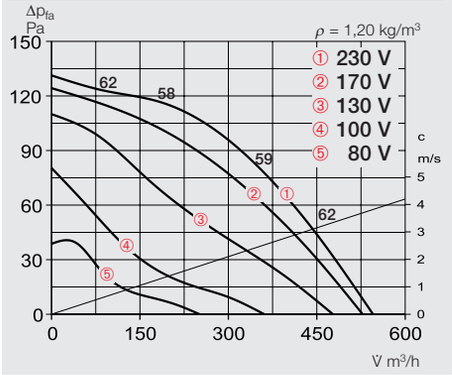
RDW 200/2

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	68	44	57	61	63	60	60
L_{WA}	Exhaust	dB(A)	71	45	62	66	65	62	62



RDW 200/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	56	32	45	49	51	48	48
L_{WA}	Exhaust	dB(A)	59	33	50	54	53	50	50

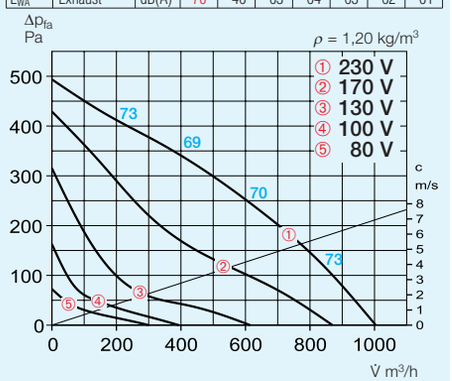


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
RDW 200/4	7177	1375	545	42	34	0.16	0.16	923	70	70	7.0	—	—	**TSW 1,5**	1495
RDW 200/2	7176	2430	1070	54	125	0.56	0.56	923	70	70	7.5	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 200/4 Ex[1]	7191	1465	770	42	75	0.32	0.32	1129	40	40	7.0	**MSA**	1289	**TSD 0,8**	1500

1) Performance curve on www.HeliosSelect.de

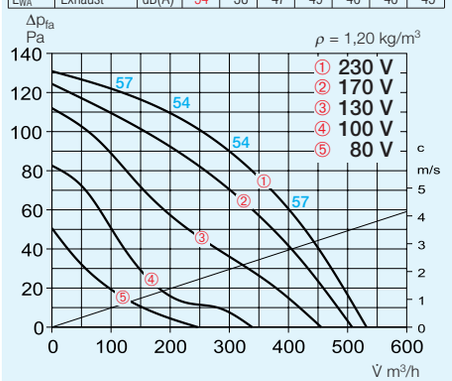
VDW 200/2

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	68	43	58	60	63	61	60
L_{WA}	Exhaust	dB(A)	70	46	63	64	63	62	61



VDW 200/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	52	35	41	47	46	44	44
L_{WA}	Exhaust	dB(A)	54	38	47	49	46	46	45



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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
VDW 200/4	7134	1375	535	37	34	0.16	0.16	923	70	70	7.5	—	—	**TSW 1,5**	1495
VDW 200/2	7126	2430	1000	53	125	0.56	0.56	923	70	70	8.0	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 200/4 Ex[1]	7178	1465	750	37	75	0.32	0.32	1129	40	40	7.5	**MSA**	1289	**TSD 0,8**	1500

1) Performance curve on www.HeliosSelect.de

Horizontal discharge RD

Vertical discharge VD

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

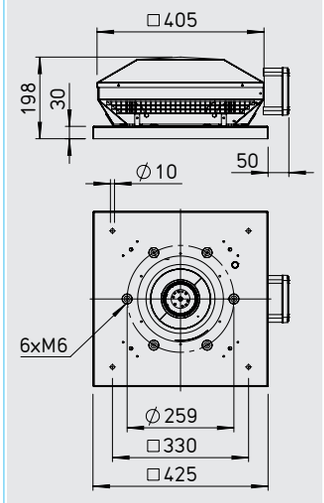
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

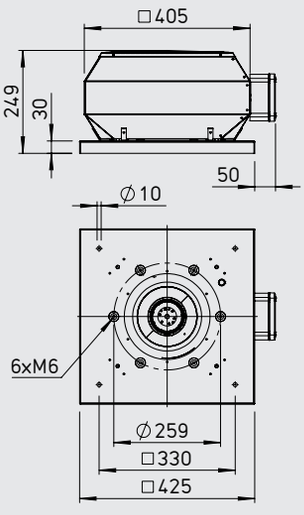
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ Electrical connection

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



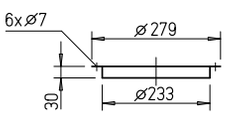
Dim. in mm



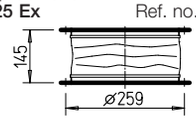
Dim. in mm

Accessories for Type RD / VD

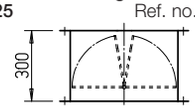
Counterflange
FR 225 Ref. no. 1201



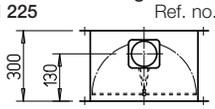
Flanged flexible connector
STS 225 Ref. no. 1218
For ex-proof fans
STS 225 Ex Ref. no. 2500



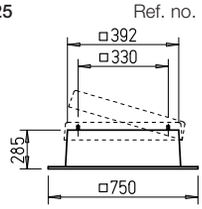
Automatic backdraught shutter
RVS 225 Ref. no. 2591



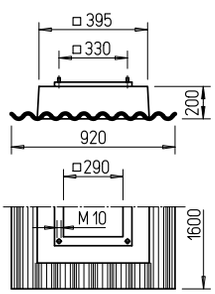
Motorised backdraught shutter
RVM 225 Ref. no. 2575



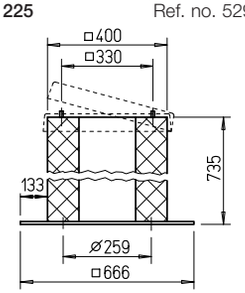
Hinged flat roof base
FDS 225 Ref. no. 1378



Corrugated roof base, profile 5
WDS 225 Ref. no. 1560



Hinged base attenuator
SSD 225 Ref. no. 5290



Dim. in mm

■ 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

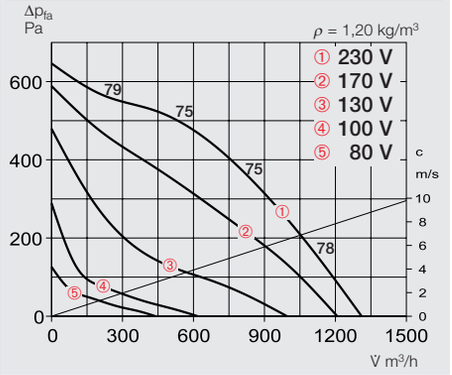
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

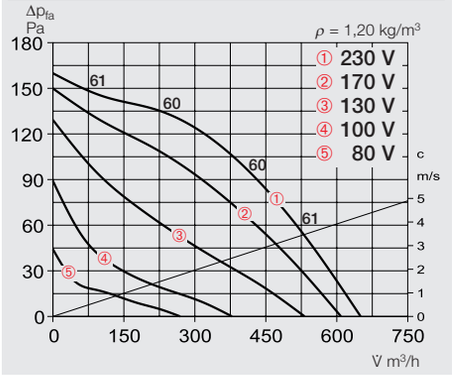
RDW 225/2

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	72	46	62	65	67	64	64
L_{WA}	Exhaust	dB(A)	75	50	65	69	70	67	66



RDW 225/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	56	39	45	50	51	48	48
L_{WA}	Exhaust	dB(A)	60	40	51	57	53	49	49

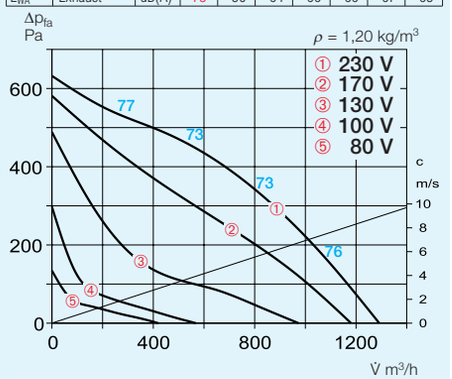


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
RDW 225/4	7235	1340	650	43	43	0.2	0.2	923	70	70	6.5	—	—	**TSW 1,5**	1495
RDW 225/2	7234	2635	1330	58	208	0.9	1	923	70	70	7.5	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 225/4 Ex[1]	7239	1450	1050	43	80	0.35	0.35	1129	40	40	6.5	**MSA**	1289	**TSD 0,8**	1500

1) Performance curve on www.HeliosSelect.de

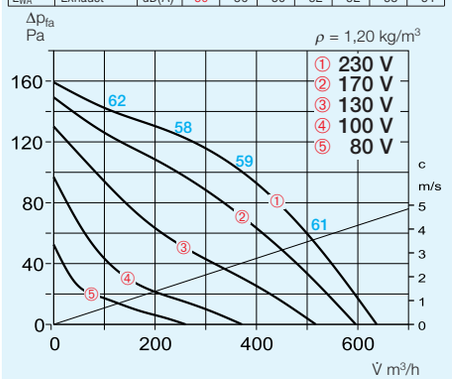
VDW 225/2

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	71	47	61	64	66	63	63
L_{WA}	Exhaust	dB(A)	73	50	64	66	66	67	65



VDW 225/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	57	33	47	50	52	49	49
L_{WA}	Exhaust	dB(A)	59	36	50	52	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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
VDW 225/4	7221	1340	640	42	43	0.2	0.2	923	70	70	8.0	—	—	**TSW 1,5**	1495
VDW 225/2	7196	2635	1295	56	208	0.9	1	923	70	70	9.0	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 225/4 Ex[1]	7237	1450	1025	42	80	0.35	0.35	1129	40	40	8.0	**MSA**	1289	**TSD 0,8**	1500

1) Performance curve on www.HeliosSelect.de

Horizontal discharge RD

Vertical discharge VD

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

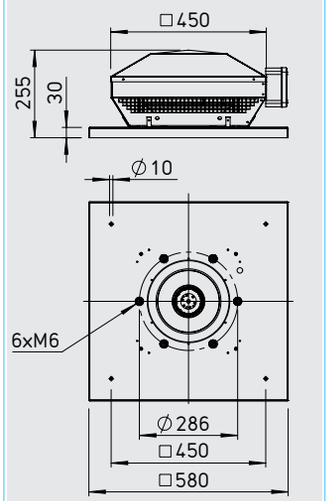
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

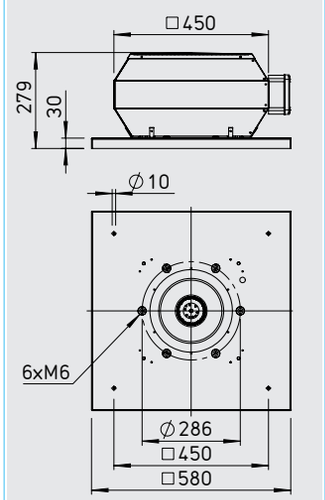
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ Electrical connection

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



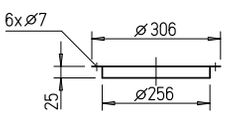
Dim. in mm



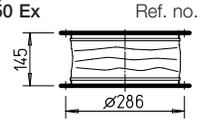
Dim. in mm

Accessories for Type RD / VD

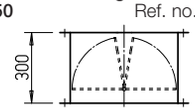
Counterflange
FR 250 Ref. no. 1203



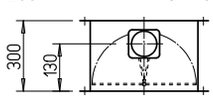
Flanged flexible connector
STS 250 Ref. no. 1220
For ex-proof fans
STS 250 Ex Ref. no. 2501



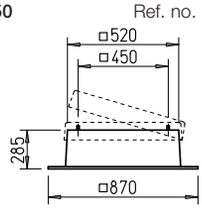
Automatic backdraught shutter
RVS 250 Ref. no. 2592



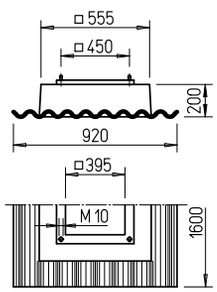
Motorised backdraught shutter
RVM 250 Ref. no. 2576



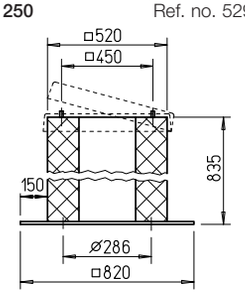
Hinged flat roof base
FDS 250 Ref. no. 1379



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



Hinged base attenuator
SSD 250 Ref. no. 5292



Dim. in mm

■ 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

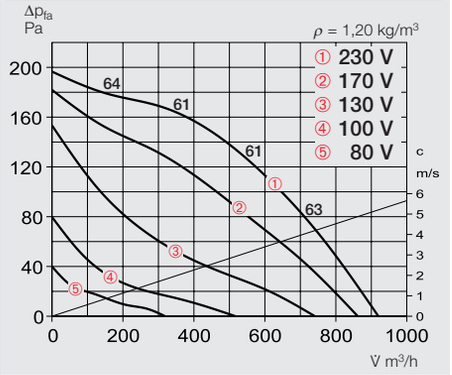
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

RDW 250/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	58	46	48	52	52	50	50
L_{WA}	Exhaust	dB(A)	61	50	52	55	54	54	52

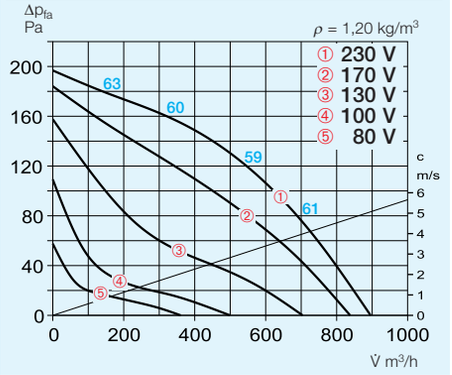


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
RDW 250/4	7264	1340	920	44	63	0.28	0.28	923	70	70	11.0	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 250/4 Ex[1)]	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

VDW 250/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	58	40	49	51	52	51	51
L_{WA}	Exhaust	dB(A)	60	47	52	54	53	52	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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch	Ref. no.
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 44															
VDW 250/4	7244	1340	900	43	63	0.28	0.28	923	70	70	11.5	—	—	**TSW 1,5**	1495
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 250/4 Ex[1)]	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

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 five-step controllers. See table for assignment.

■ Sound levels

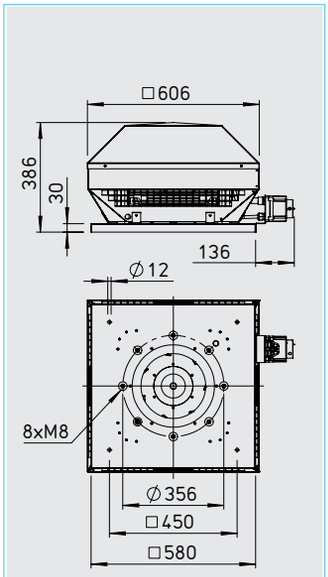
The sum levels and spectrum figures are specified above the performance curve for:
– Sound level intake
– Sound level exhaust

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

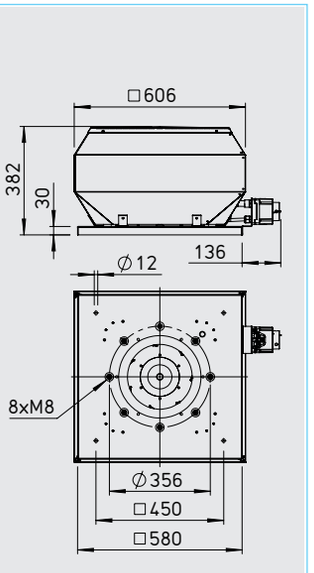
Ready-to-connect, completely pre-assembled in shipping carton.

Horizontal discharge RD



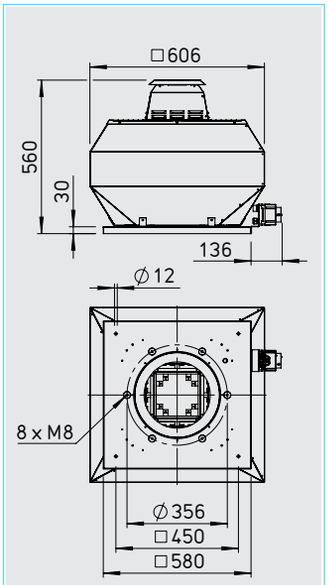
Dim. in mm

Vertical discharge VD



Dim. in mm

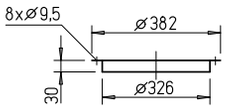
VD T120



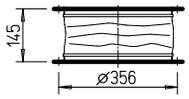
Dim. in mm

Accessories for Type RD / VD*

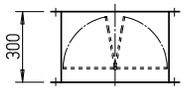
Counterflange
FR 315 Ref. no. 1204



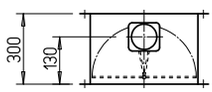
Flanged flexible connector
STS 315 Ref. no. 1221
For ex-proof fans
STS 315 Ex Ref. no. 2503



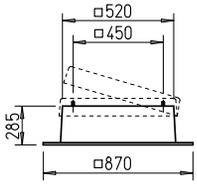
Automatic backdraught shutter
RVS 315 Ref. no. 2594



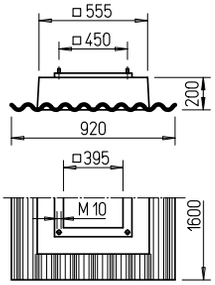
Motorised backdraught shutter
RVM 315 Ref. no. 2578



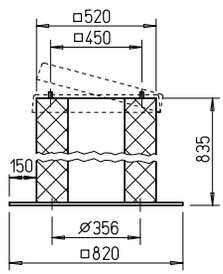
Hinged flat roof base
FDS 315 Ref. no. 1379



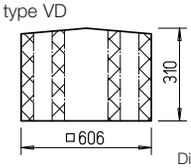
Corrugated roof base, profile 5
WDS 315 Ref. no. 1561



Hinged base attenuator
SSD 315 Ref. no. 5292



Roof fan attenuator
HSDV 315 Ref. no. 7476
only for type VD



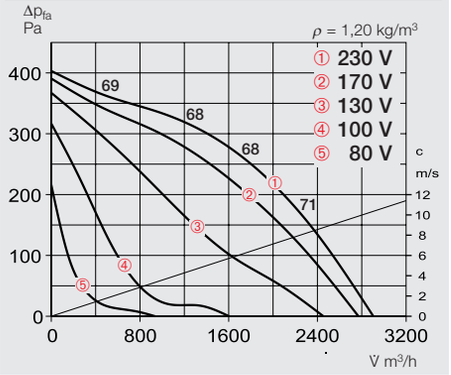
Dim. in mm

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

Information	Page
Information for planning	10 on
Technical description	438
Selection chart	441
Accessories, details	485
Speed controller and switch	525 on

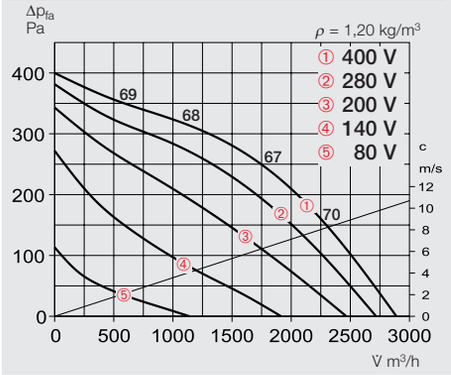
RDW 315/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	66	54	58	60	58	59	58
L_{WA}	Exhaust	dB(A)	68	55	62	63	62	58	50



RDD 315/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	66	53	57	59	57	58	57
L_{WA}	Exhaust	dB(A)	68	55	61	62	61	57	49

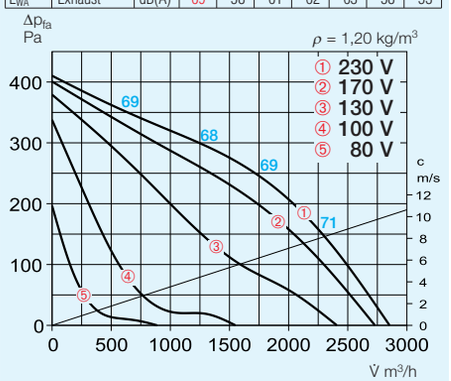


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
RDW 315/4	7287	1385	2900	51	300	1.5	2.0	1128	60	50	20.5	**MW**	1579	**MWS 3**[2]	1948
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 315/4	7288	1385	2890	51	290	0.67	0.67	1129	65	65	19.5	**MD**	5849	**RDS 1**[2]	1314
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 315/4 Ex[1]	7303	1380	2980	51	320	0.74	0.74	1129	40	40	19.5	**MSA**	1289	**TSD 1,5**	1501

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

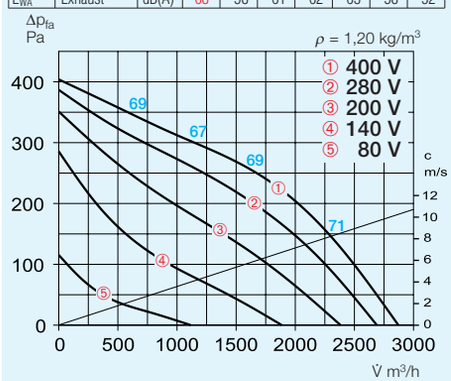
VDW 315/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	66	53	57	59	57	58	57
L_{WA}	Exhaust	dB(A)	69	58	61	62	63	58	53



VDD 315/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	65	53	57	59	57	58	57
L_{WA}	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
VDW 315/4	7279	1385	2860	52	300	1.5	2.0	1128	60	50	21.0	**MW**	1579	**MWS 3**[2]	1948
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 315/4	7282	1385	2880	51	290	0.67	0.67	1129	65	65	20.0	**MD**	5849	**RDS 1**[2]	1314
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 315/4 Ex[1]	7293	1380	2930	52	320	0.74	0.74	1129	40	40	20.0	**MSA**	1289	**TSD 1,5**	1501
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 315/4 T120[1]	7315	1445	2855	52	350	0.9	1.1	1129	120	100	25.0	**MD**	5849	**RDS 2**[2]	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.

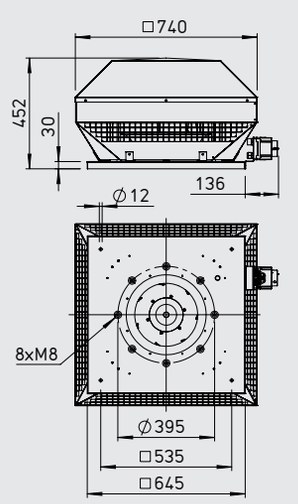
■ Guard

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

■ Speed control

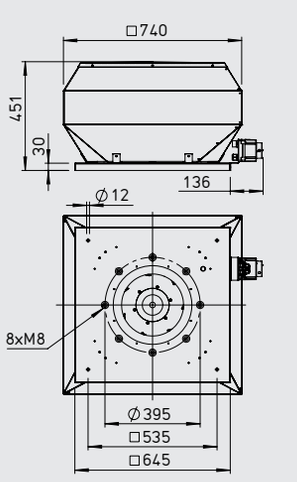
All 1~ types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller.
All 3~ types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or five-step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

Horizontal discharge RD



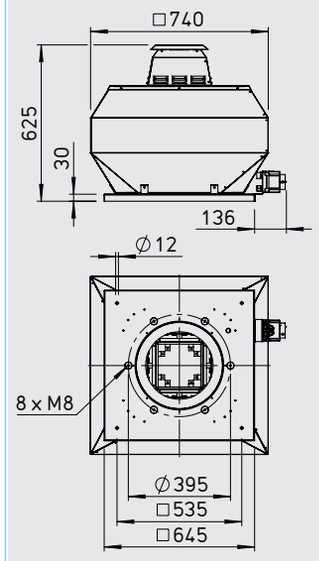
Dim. in mm

Vertical discharge VD



Dim. in mm

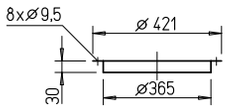
VD T120



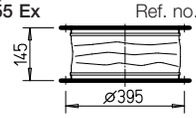
Dim. in mm

Accessories for Type RD / VD*

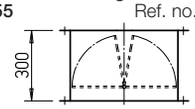
Counterflange
FR 355 Ref. no. 1205



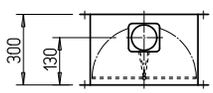
Flanged flexible connector
STS 355 Ref. no. 1222
For ex-proof fans
STS 355 Ex Ref. no. 2504



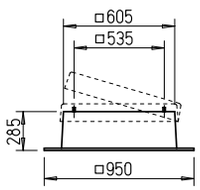
Automatic backdraught shutter
RVS 355 Ref. no. 2595



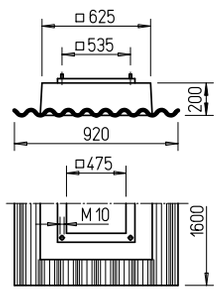
Motorised backdraught shutter
RVM 355 Ref. no. 2579



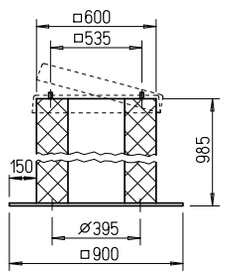
Hinged flat roof base
FDS 355 Ref. no. 1380



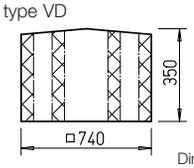
Corrugated roof base, profile 5
WDS 355 Ref. no. 1562



Hinged base attenuator
SSD 355 Ref. no. 5024



Roof fan attenuator
HSDV 355 Ref. no. 7480
only for type VD



Dim. in mm

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

■ 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.

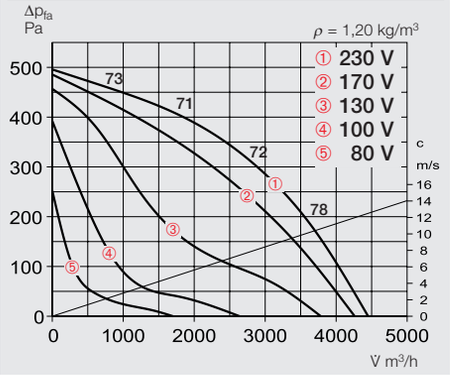
■ Delivery

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

Information	Page
Information for planning	10 on
Technical description	438
Selection chart	441
Accessories, details	485
Speed controller and switch	525 on

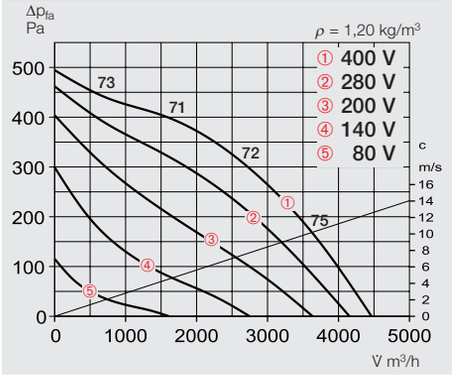
RDW 355/4

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

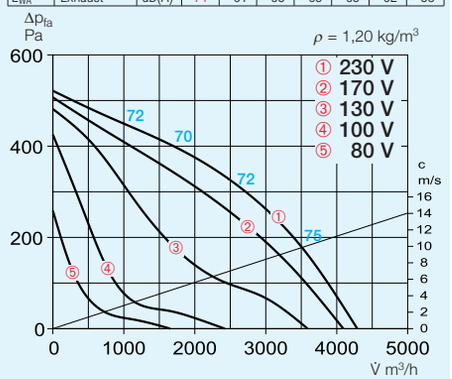


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min^{-1}	m^3/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
RDW 355/4	7323	1400	4480	55	520	2.55	3.4	1128	70	55	28.0	**MW**	1579	**MWS 5**[2]	1949
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 355/4	7326	1350	4470	55	460	0.9	3.5	1129	60	60	26.5	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 355/4 Ex[1]	7329	1360	3960	55	650	1.5	1.5	1129	40	40	26.5	**MSA**	1289	**TSD 3**	1502

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

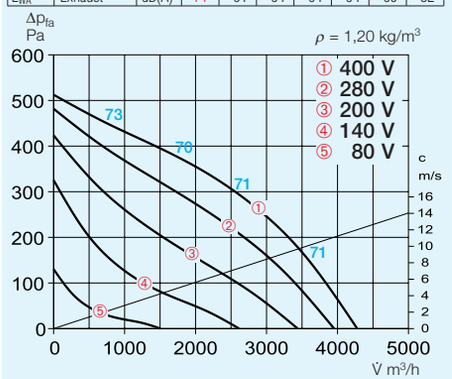
VDW 355/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	66	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)	66	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min^{-1}	m^3/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
VDW 355/4	7317	1400	4300	54	520	2.55	3.4	1128	70	55	28.5	**MW**	1579	**MWS 5**[2]	1949
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 355/4	7318	1350	4290	54	460	0.9	3.5	1129	60	60	27.0	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 355/4 Ex[1]	7327	1360	3880	54	650	1.5	1.5	1129	40	40	27.0	**MSA**	1289	**TSD 3**	1502
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 355/4 T120[1]	7336	1420	4315	54	540	1.7	1.8	1129	120	100	34.0	**MD**	5849	**RDS 4**[2]	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.

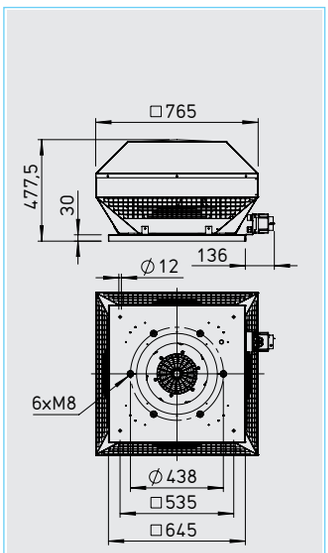
■ Guard

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

■ Speed control

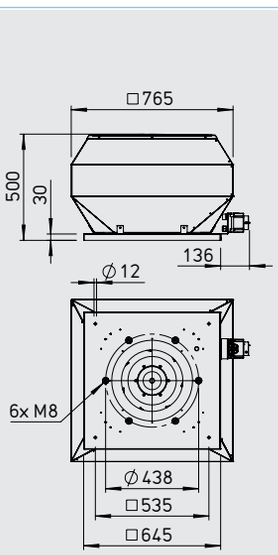
All 1~ types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3~ types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or five-step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

Horizontal discharge RD



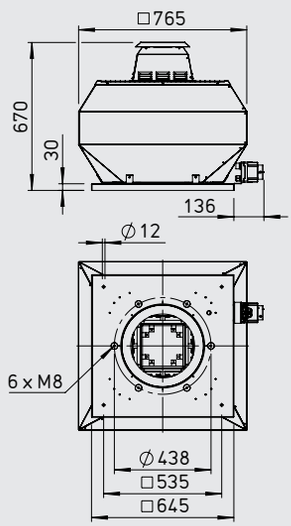
Dim. in mm

Vertical discharge VD



Dim. in mm

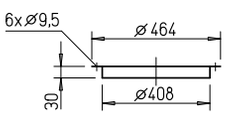
VD T120



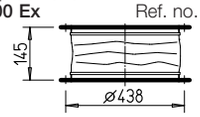
Dim. in mm

Accessories for Type RD / VD*

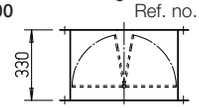
Counterflange
FR 400 Ref. no. 1206



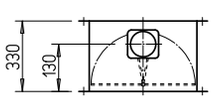
Flanged flexible connector
STS 400 Ref. no. 1223
For ex-proof fans
STS 400 Ex Ref. no. 2505



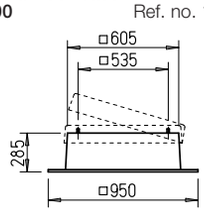
Automatic backdraught shutter
RVS 400 Ref. no. 2596



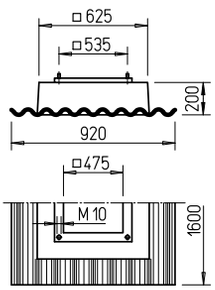
Motorised backdraught shutter
RVM 400 Ref. no. 2580



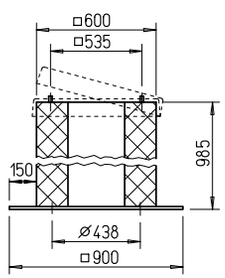
Hinged flat roof base
FDS 400 Ref. no. 1380



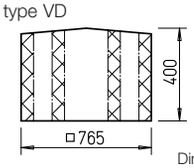
Corrugated roof base, profile 5
WDS 400 Ref. no. 1562



Hinged base attenuator
SSD 400 Ref. no. 5291



Roof fan attenuator
HSDV 400 Ref. no. 7481
only for type VD



Dim. in mm

■ 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.

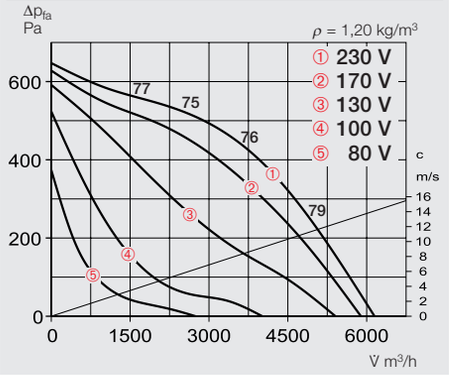
■ Delivery

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

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

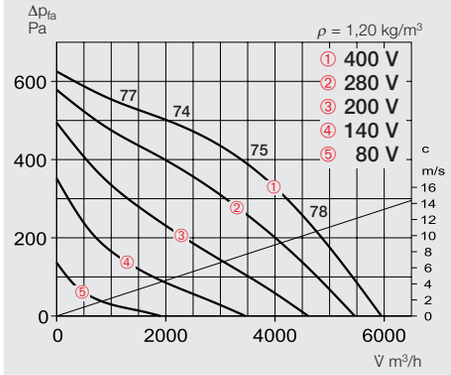
RDW 400/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	71	61	65	66	63	62	56
L_{WA}	Exhaust	dB(A)	76	67	70	70	70	66	59



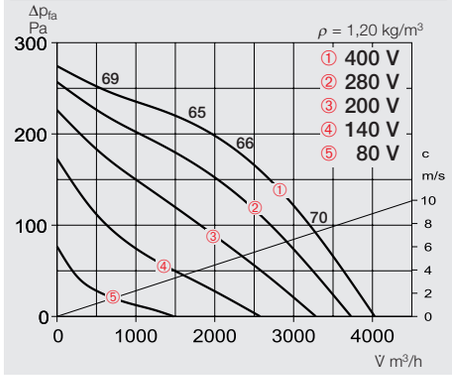
RDD 400/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	70	60	64	65	62	61	55
L_{WA}	Exhaust	dB(A)	75	66	69	69	69	65	58



RDD 400/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	61	51	55	56	53	52	46
L_{WA}	Exhaust	dB(A)	66	57	60	60	60	56	49

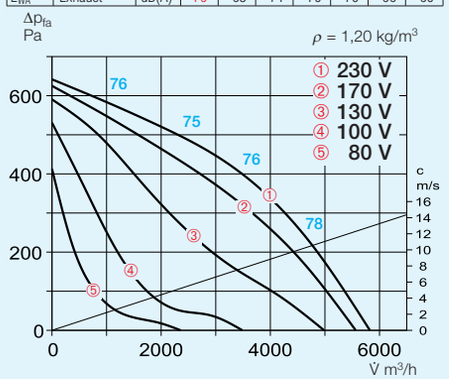


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
RDW 400/4	7350	1405	6150	59	875	4.3	6.0	1128	60	40	34.5	**MW**	1579	**MSW 7,5**[2]	1950
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 400/6	7352	905	4030	49	260	0.6	0.6	1129	60	60	29.0	**MD**	5849	**RDS 1**[2]	1314
RDD 400/4	7351	1375	5970	58	765	1.55	1.6	1129	60	55	29.0	**MD**	5849	**RDS 2**[2]	1315
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 400/6 Ex[1]	7363	935	4325	49	300	0.77	0.83	1129	40	40	29.0	**MSA**	1289	**TSD 1,5**	1501
RDD 400/4 Ex[1]	7358	1375	5700	58	1000	2.1	2.2	1129	40	40	29.0	**MSA**	1289	**TSD 1,5**	1501

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

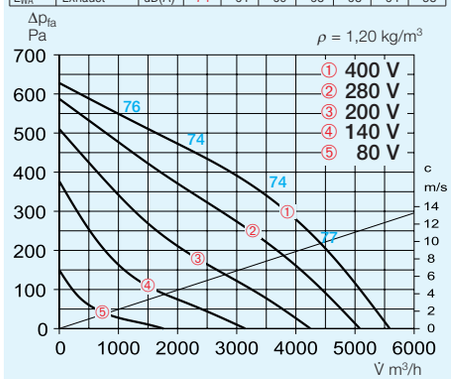
VDW 400/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	71	61	65	66	63	62	56
L_{WA}	Exhaust	dB(A)	76	63	71	70	70	66	60



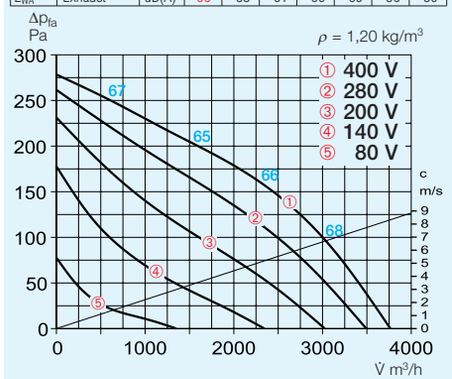
VDD 400/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	69	59	63	64	61	60	54
L_{WA}	Exhaust	dB(A)	74	61	69	68	68	64	58



VDD 400/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	61	51	55	56	53	52	46
L_{WA}	Exhaust	dB(A)	66	53	61	60	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
VDW 400/4	7338	1405	5830	59	875	4.3	6.0	1128	60	40	35.0	**MW**	1579	**MWS 7,5**[2]	1950
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 400/6	7343	905	3780	49	260	0.6	0,6	1129	60	60	29.5	**MD**	5849	**RDS 1**[2]	1314
VDD 400/4	7342	1375	5590	57	765	1.55	1.6	1129	60	55	29.5	**MD**	5849	**RDS 2**[2]	1315
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 400/6 Ex[1]	7359	935	3865	49	300	0.77	0.83	1129	40	40	29.5	**MSA**	1289	**TSD 1,5**	1501
VDD 400/4 Ex[1]	7353	1375	5350	57	1000	2.1	2.2	1129	40	40	29.5	**MSA**	1289	**TSD 3**	1502
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 400/6 T120[1]	7366	930	4170	49	360	1.0	1.0	1129	120	100	36.0	**MD**	5849	**RDS 2**[2]	1315
VDD 400/4 T120[1]	7370	1350	6050	57	880	1.8	1.8	1129	120	100	36.0	**MD**	5849	**RDS 4**[2]	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.

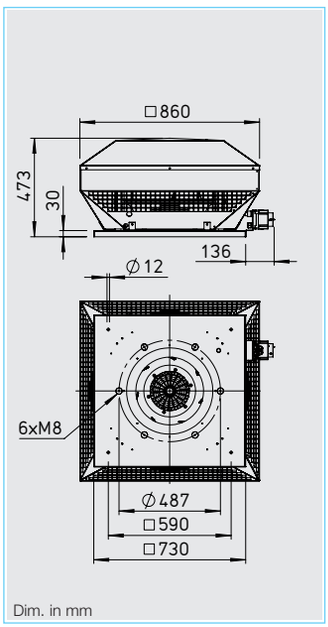
■ Guard

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

■ Speed control

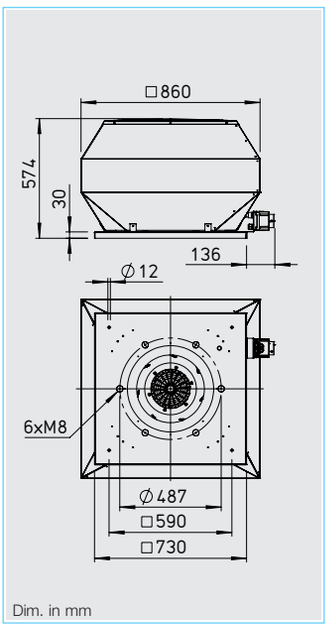
All 1~ types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller.
All 3~ types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or five-step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

Horizontal discharge RD



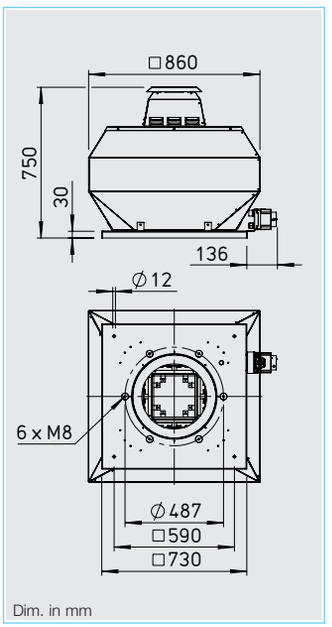
Dim. in mm

Vertical discharge VD



Dim. in mm

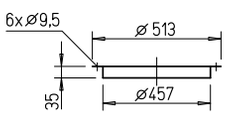
VD T120



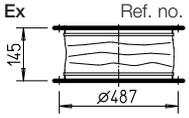
Dim. in mm

Accessories for Type RD / VD*

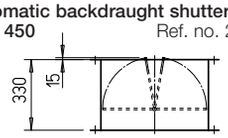
Counterflange
FR 450 Ref. no. 1207



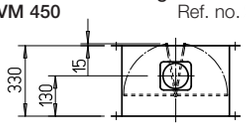
Flanged flexible connector
STS 450 Ref. no. 1224
For ex-proof fans
STS 450 Ex Ref. no. 2506



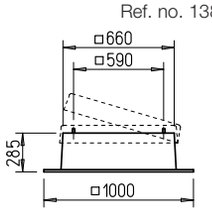
Automatic backdraught shutter
RVS 450 Ref. no. 2597



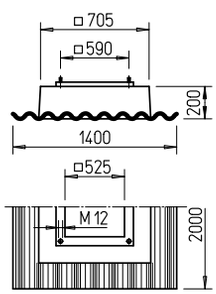
Motorised backdraught shutter
RVM 450 Ref. no. 2581



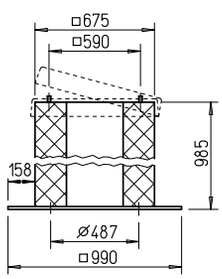
Hinged flat roof base
FDS 450 Ref. no. 1381



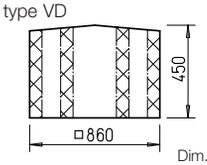
Corrugated roof base, profile 5
WDS 450 Ref. no. 1563



Hinged base attenuator
SSD 450 Ref. no. 5288



Roof fan attenuator
HSDV 450 Ref. no. 7482
only for type VD



Dim. in mm

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

■ Sound levels

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

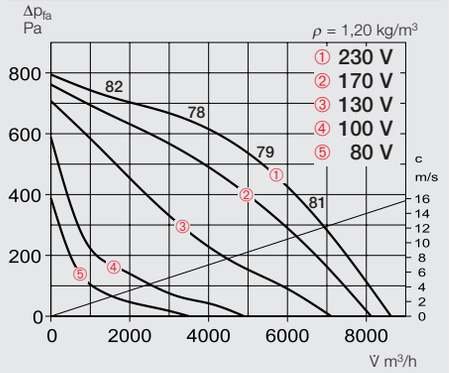
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

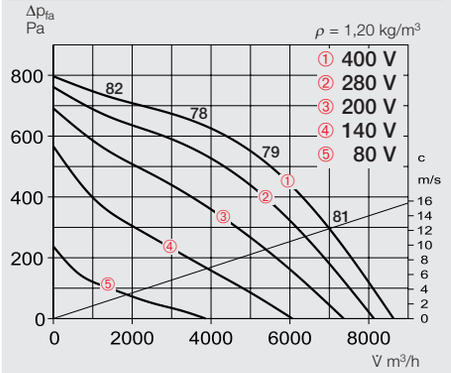
RDW 450/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	74	63	68	68	67	66	61
L_{WA}	Exhaust	dB(A)	79	69	70	70	74	69	62



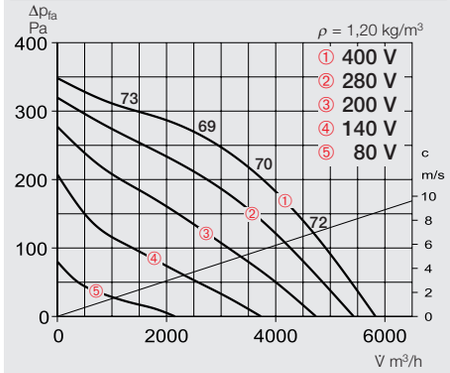
RDD 450/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	74	63	68	68	67	66	61
L_{WA}	Exhaust	dB(A)	79	69	70	70	74	69	62



RDD 450/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	65	54	59	59	58	57	52
L_{WA}	Exhaust	dB(A)	70	60	61	61	65	60	53

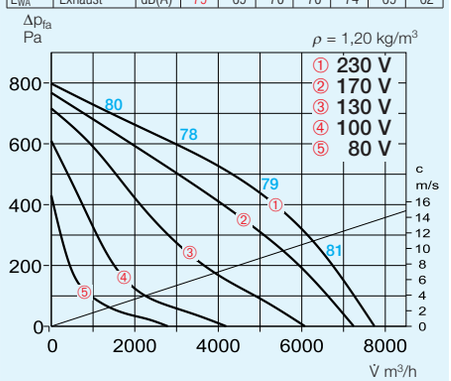


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
RDW 450/4	7377	1385	8650	62	1470	6.6	8.7	1128	60	40	48.0	**MW**	1579	**MWS 10**[2]	1946
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 450/6	7385	905	5850	53	425	1.1	1.1	1129	60	60	41.0	**MD**	5849	**RDS 2**[2]	1315
RDD 450/4	7384	1400	8650	62	1350	2.6	2.9	1129	70	70	47.5	**MD**	5849	**RDS 7**[2]	1316
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 450/6 Ex[1]	7391	860	5850	53	520	0.95	0.95	1129	40	40	41.0	**MSA**	1289	**TSD 1,5**	1501
RDD 450/4 Ex[1]	7390	1400	8780	62	1550	3.8	3.8	1129	40	40	47.5	**MSA**	1289	**TSD 5,5**	1503

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

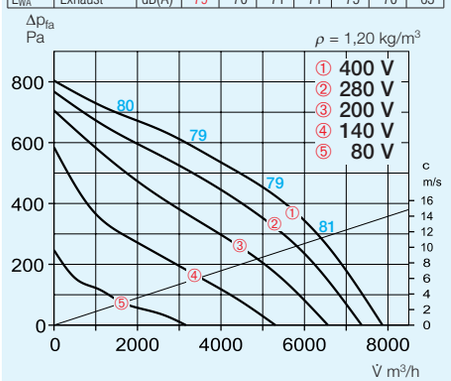
VDW 450/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	73	62	67	67	66	65	60
L_{WA}	Exhaust	dB(A)	79	69	70	70	74	69	62



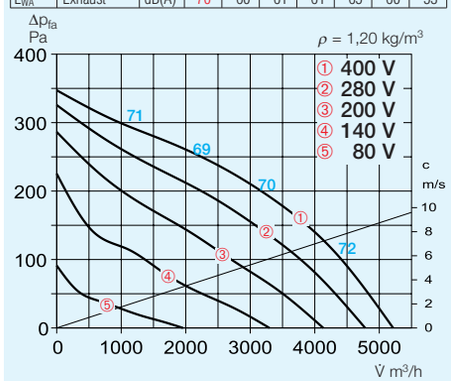
VDD 450/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	73	62	67	67	66	65	60
L_{WA}	Exhaust	dB(A)	79	70	71	71	75	70	63



VDD 450/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	64	53	58	58	57	56	51
L_{WA}	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54															
VDW 450/4	7372	1385	7750	62	1470	6.6	8.7	1128	60	40	49.0	**MW**	1579	**MWS 10**[2]	1946
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 450/6	7380	905	5200	53	425	1.1	1.1	1129	60	60	42.0	**MD**	5849	**RDS 2**[2]	1315
VDD 450/4	7379	1400	7900	62	1350	2.6	2.9	1129	70	70	48.5	**MD**	5849	**RDS 7**[2]	1316
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 450/6 Ex[1]	7387	860	5230	53	520	0.95	0.95	1129	40	40	42.0	**MSA**	1289	**TSD 1,5**	1501
VDD 450/4 Ex[1]	7386	1400	7700	62	1550	3.8	3.8	1129	40	40	48.5	**MSA**	1289	**TSD 5,5**	1503
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 450/6 T120[1]	7399	900	5570	53	490	1.4	1.4	1129	120	100	54.0	**MD**	5849	**RDS 2**[2]	1315
VDD 450/4 T120[1]	7398	1390	8600	62	1330	3.8	3.8	1129	120	100	60.0	**MD**	5849	**RDS 7**[2]	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.

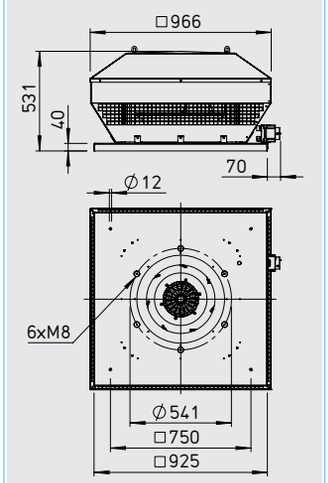
Motor protection
Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

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.

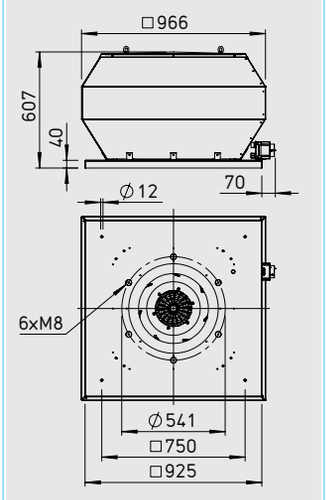
Speed control
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



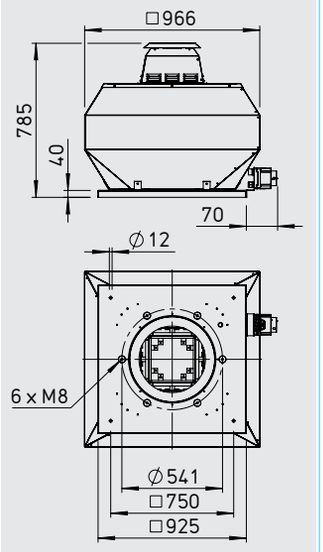
Dim. in mm

Vertical discharge VD



Dim. in mm

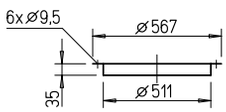
VD T120



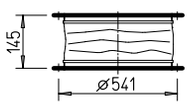
Dim. in mm

Accessories for Type RD / VD*

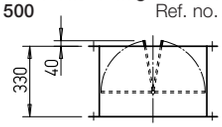
Counterflange
FR 500 Ref. no. 1208



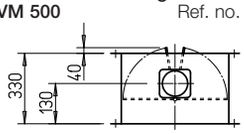
Flanged flexible connector
STS 500 Ref. no. 1225
For ex-proof fans
STS 500 Ex Ref. no. 2507



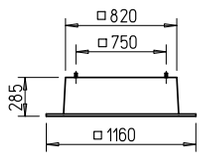
Automatic backdraught shutter
RVS 500 Ref. no. 2598



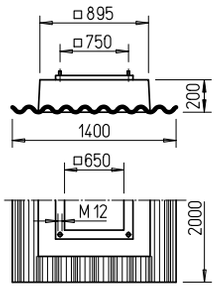
Motorised backdraught shutter
RVM 500 Ref. no. 2582



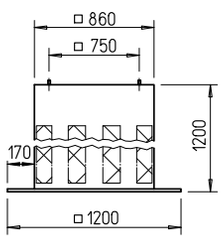
Flat roof base
FDS 500 Ref. no. 1382



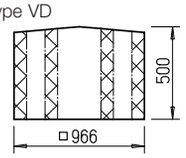
Corrugated roof base, profile 5
WDS 500 Ref. no. 1564



Base attenuator
SSD 500 Ref. no. 5017



Roof fan attenuator
HSDV 500 Ref. no. 7483
only for type VD



Dim. in mm

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

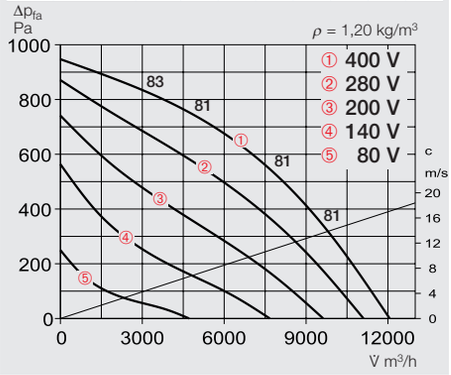
Sound levels
The sum levels and spectrum figures are specified above the performance curve for:
– Sound level intake
– Sound level exhaust

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.

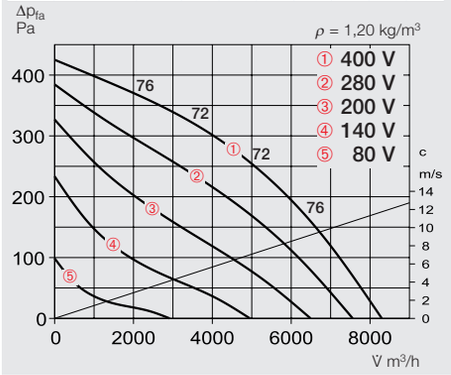
RDD 500/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	76	67	71	69	69	66	62
L_{WA}	Exhaust	dB(A)	81	72	74	75	76	70	65



RDD 500/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	67	58	62	60	60	57	53
L_{WA}	Exhaust	dB(A)	72	63	65	66	67	61	56

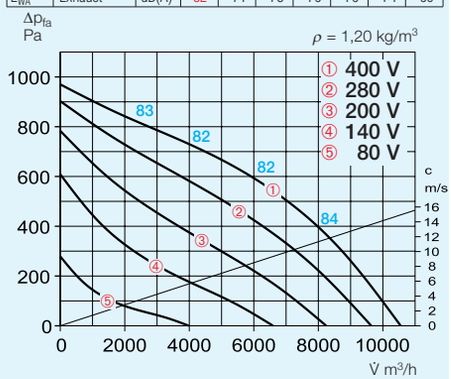


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 500/6	7410	885	8300	55	680	1.55	1.55	1129	50	50	49.0	**MD**	5849	**RDS 2**[2]	1315
RDD 500/4	7409	1340	12100	64	2150	4.15	4.25	1129	55	50	58.0	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 500/6 Ex[1]	7414	810	8050	55	560	1.1	1.1	1129	40	40	49.0	**MSA**	1289	**TSD 1,5**	1501
RDD 500/4 Ex[1]	7416	1420	13030	64	2250	4.5	5.8	—	40	40	58.0	**MSA**	1289	**TSD 7**	1504

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

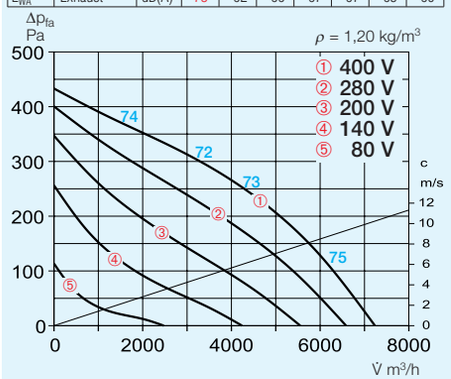
VDD 500/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	76	67	71	69	69	66	62
L_{WA}	Exhaust	dB(A)	82	71	75	76	76	74	69



VDD 500/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	67	58	62	60	60	57	53
L_{WA}	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch / Frequency inverter	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 500/6	7402	885	7250	56	680	1.55	1.55	1129	50	50	51.0	**MD**	5849	**RDS 2**[2]	1315
VDD 500/4	7401	1340	10550	65	2150	4.15	4.25	1129	55	50	60.0	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 500/6 Ex[1]	7412	810	6900	56	560	1.1	1.1	1129	40	40	51.0	**MSA**	1289	**TSD 1,5**	1501
VDD 500/4 Ex[1]	7413	1420	11400	65	2250	4.5	5.8	1129	40	40	60.0	**MSA**	1289	**TSD 7**	1504
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54 or IP 55*															
VDD 500/6 T120[1]	7419	910	8250	56	790	1.9	1.9	1129	120	100	62.0	**MD**	5849	**RDS 4**[2]	1316
VDD 500/4 T120[1]*	7418	1440	13060	65	3000	6	—	1130	120	100	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.

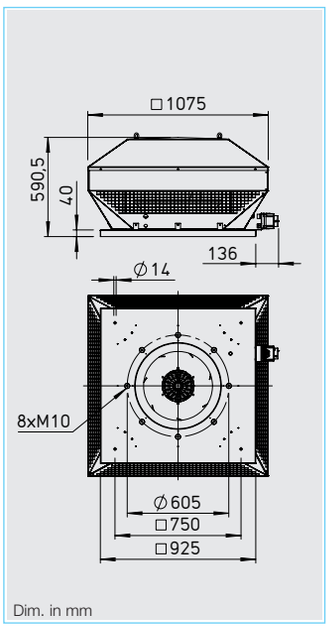
■ Guard

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

■ Speed control

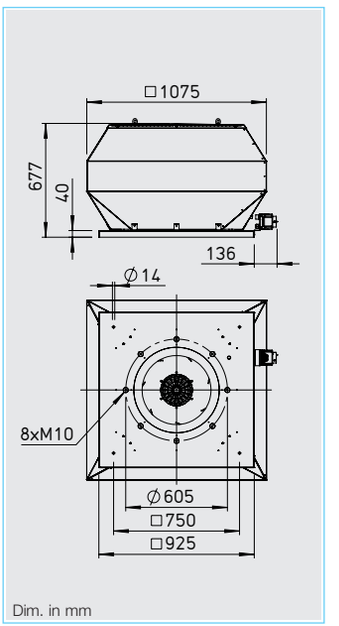
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



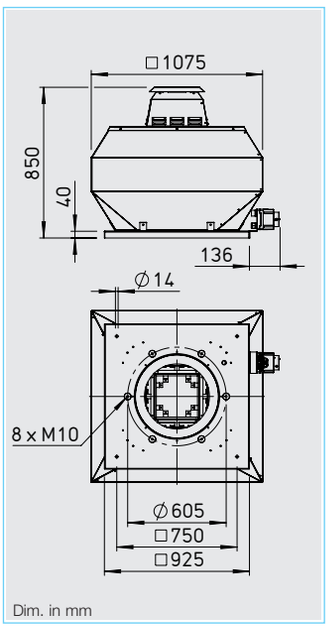
Dim. in mm

Vertical discharge VD



Dim. in mm

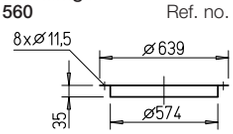
VD T120



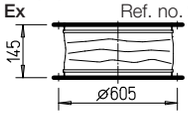
Dim. in mm

Accessories for Type RD / VD*

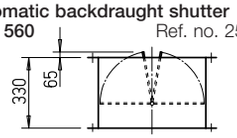
Counterflange
FR 560 Ref. no. 1209



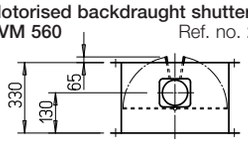
Flanged flexible connector
STS 560 Ref. no. 1226
For ex-proof fans
STS 560 Ex Ref. no. 2508



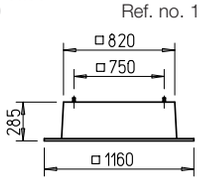
Automatic backdraught shutter
RVS 560 Ref. no. 2599



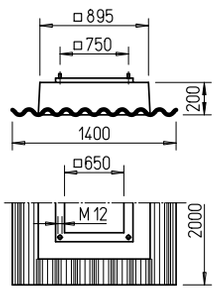
Motorised backdraught shutter
RVM 560 Ref. no. 2583



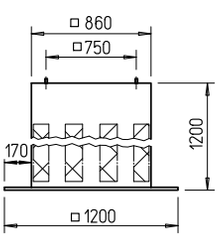
Flat roof base
FDS 560 Ref. no. 1382



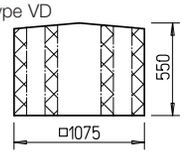
Corrugated roof base, profile 5
WDS 560 Ref. no. 1564



Base attenuator
SSD 560 Ref. no. 5017



Roof fan attenuator
HSDV 560 Ref. no. 7484
only for type VD



Dim. in mm

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

■ Sound levels

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

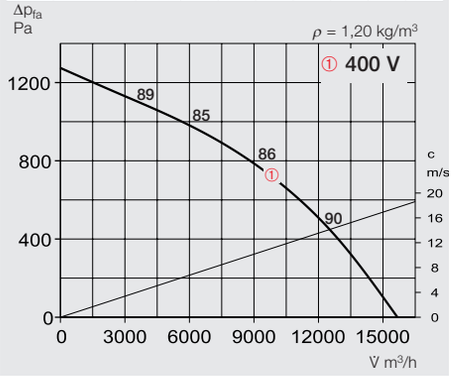
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

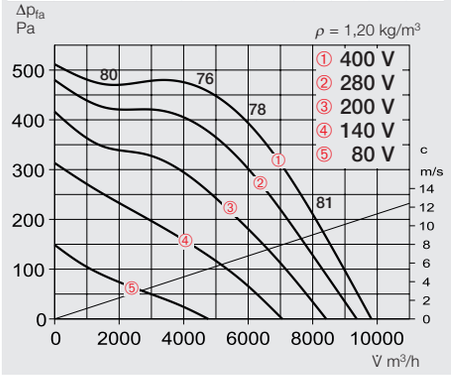
RDD 560/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	81	70	72	73	74	73	69
L_{WA}	Exhaust	dB(A)	86	74	77	79	80	77	70



RDD 560/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	72	62	64	65	66	65	61
L_{WA}	Exhaust	dB(A)	77	66	69	71	72	69	62

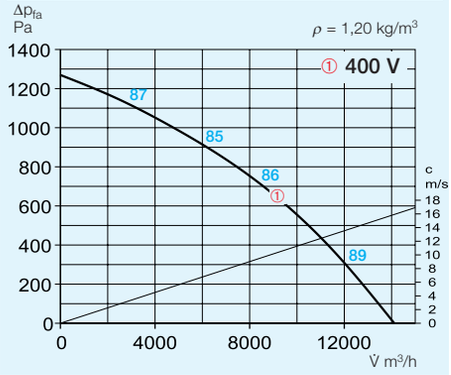


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch / Frequency inverter	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 560/6	7429	920	9850	60	1180	3.2	3.2	1130	65	65	73.0	**MD**	5849	**RDS 7**[2]	1578
RDD 560/4	7426	1385	15700	69	4430	6.4	—	1130	55	55	83.0	**MD**	5849	**FU-BS 8,0**	5461
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 560/6 Ex[1]	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

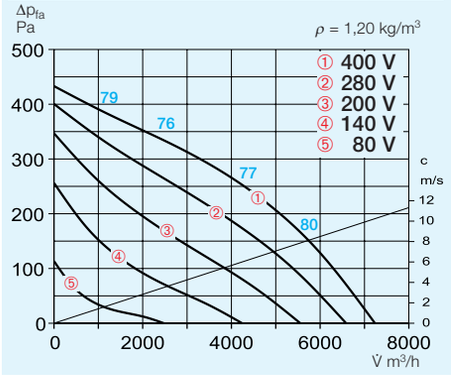
VDD 560/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	82	71	73	74	75	74	70
L_{WA}	Exhaust	dB(A)	86	75	79	81	80	76	72



VDD 560/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	72	61	63	64	65	64	60
L_{WA}	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	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch / Frequency inverter	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 560/6	7422	920	9250	60	1180	3.2	3.2	1130	65	65	77.0	**MD**	5849	**RDS 7**[2]	1578
VDD 560/4	7420	1385	14100	69	4430	6.4	—	1130	55	55	77.0	**MD**	5849	**FU-BS 8,0**	5461
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 560/6 Ex[1]	7430	850	10000	60	1050	2.0	2.0	1129	40	40	92.0	**MSA**	1289	**TSD 3**	1502
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54 or IP 55*															
VDD 560/6 T120[1]	7439	930	12000	60	1300	3.5	3.5	1129	120	100	92.0	**MD**	5849	**RDS 7**[2]	1578
VDD 560/4 T120[1]*	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.

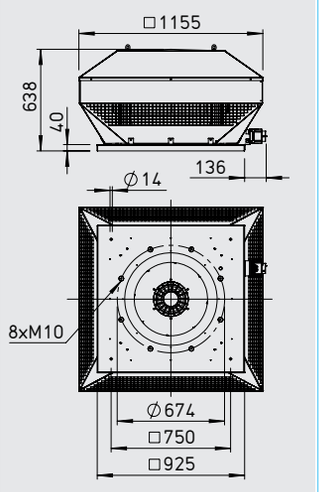
Motor protection
Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

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.

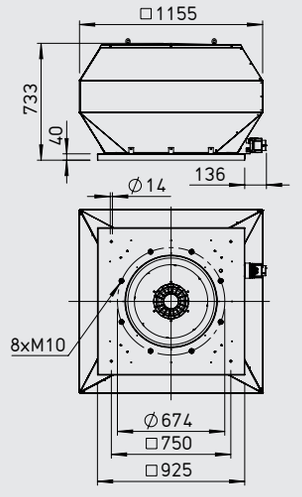
Speed control
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



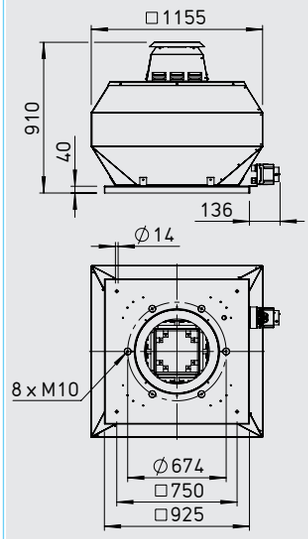
Dim. in mm

Vertical discharge VD



Dim. in mm

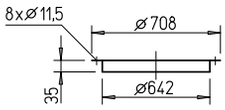
VD T120



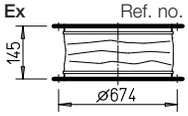
Dim. in mm

Accessories for Type RD / VD*

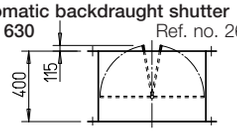
Counterflange
FR 630 Ref. no. 1211



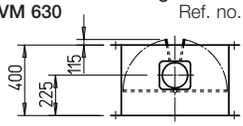
Flanged flexible connector
STS 630 Ref. no. 1228
For ex-proof fans
STS 630 Ex Ref. no. 2509



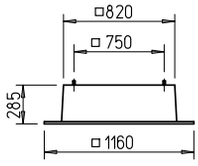
Automatic backdraught shutter
RVS 630 Ref. no. 2600



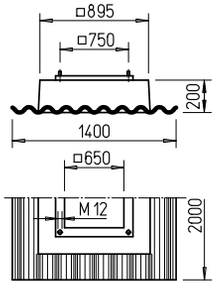
Motorised backdraught shutter
RVM 630 Ref. no. 2609



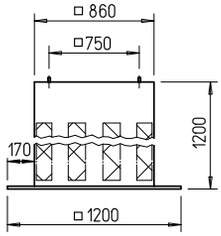
Flat roof base
FDS 630 Ref. no. 1382



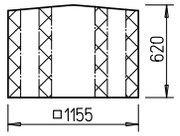
Corrugated roof base, profile 5
WDS 630 Ref. no. 1565



Base attenuator
SSD 630 Ref. no. 5017



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



Dim. in mm

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

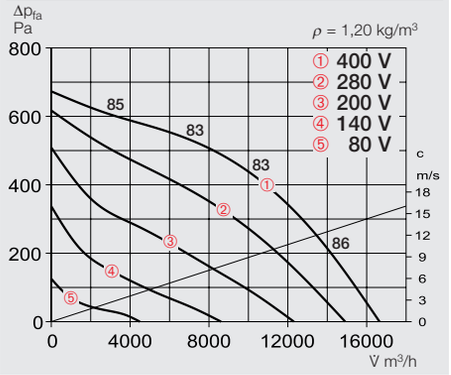
Sound levels
The sum levels and spectrum figures are specified above the performance curve for:
– Sound level intake
– Sound level exhaust

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.

RDD 630/6

Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	79	62	69	73	74	72	70
L_{WA}	Exhaust	dB(A)	83	67	72	79	78	74	68

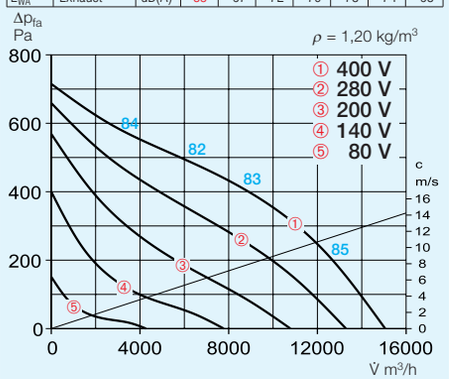


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 630/6	7447	875	16650	66	2380	4.7	5.2	1129	55	45	87.0	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
RDD 630/6 Ex[1]	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_{WA}	Intake	dB(A)	78	61	68	72	73	71	69
L_{WA}	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 temp. full load	max. air flow temp. control	Weight net	Full motor protection device		5-step speed switch / Frequency inverter	
		min⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 630/6	7441	875	15050	66	2380	4.7	5.2	1129	55	45	90.0	**MD**	5849	**RDS 7**[2]	1578
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3															
VDD 630/6 Ex[1]	7448	945	14100	66	2000	4.4	4.4	1129	40	40	90.0	**MSA**	1289	**TSD 7**	1504
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 55															
VDD 630/6 T120[1]	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

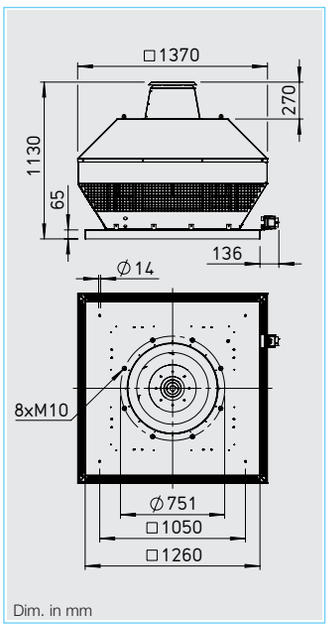
Totally enclosed speed controllable IEC standard motor with self-ventilation IP 55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

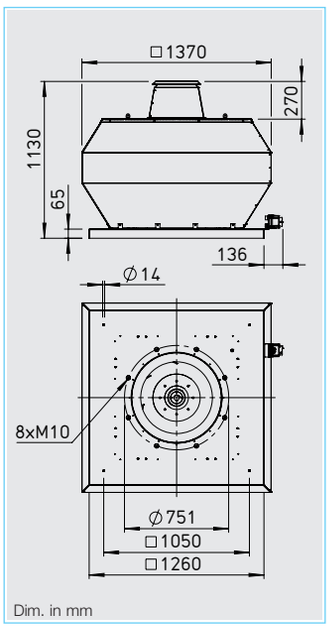
Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ Electrical connection

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



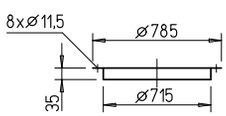
Dim. in mm



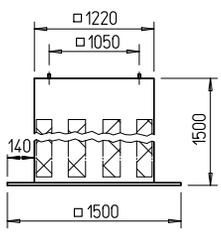
Dim. in mm

Accessories for Type RD / VD*

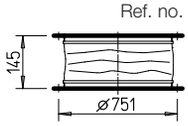
Counterflange
FR 710 Ref. no. 1212



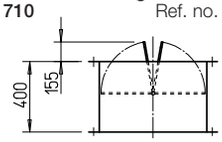
Base attenuator
SSD 710 Ref. no. 5287



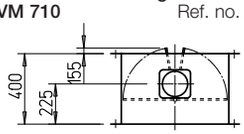
Flanged flexible connector
STS 710 Ref. no. 1229



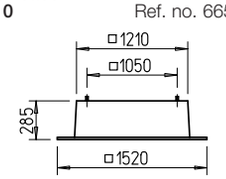
Automatic backdraught shutter
RVS 710 Ref. no. 2601



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.

■ 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

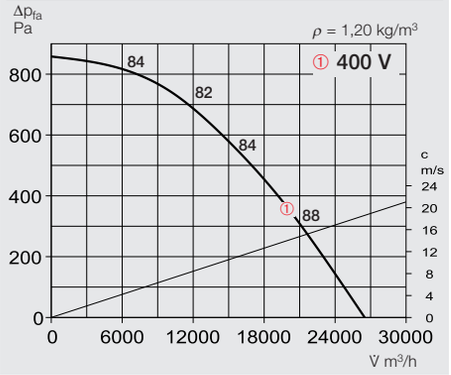
The horizontal sound pressure level at 4 m (free field conditions) is also specified in the type table as well as the table below the performance curve.

■ Delivery

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

RDD 710/6

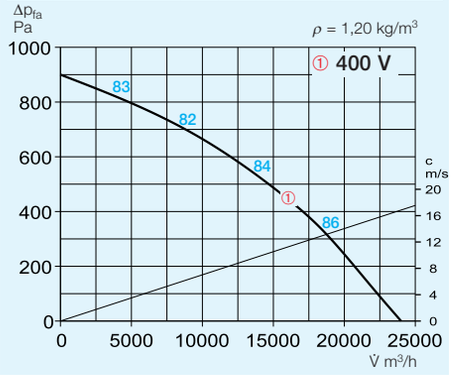
Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	79	68	71	71	72	74	68
L_{WA}	Exhaust	dB(A)	83	71	73	76	77	78	70



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	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch / Frequency inverter	Ref. no.
		min-1	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
RDD 710/6	7460	905	26500	66	5500	12.2	—	1130	50	50	112.0	**MSA**	1289	**FU-BS 14**	5463

VDD 710/6

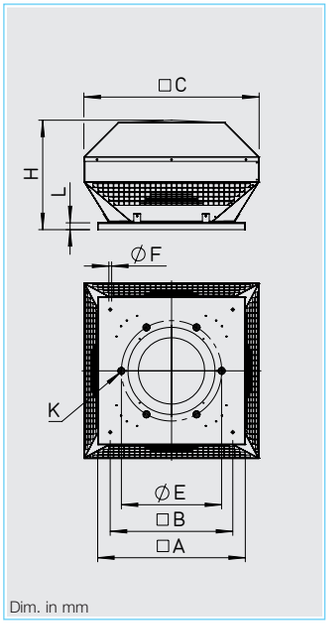
Frequency		Hz	Total	125	250	500	1k	2k	4k
L_{WA}	Intake	dB(A)	78	67	70	70	71	73	67
L_{WA}	Exhaust	dB(A)	83	71	73	76	77	78	70



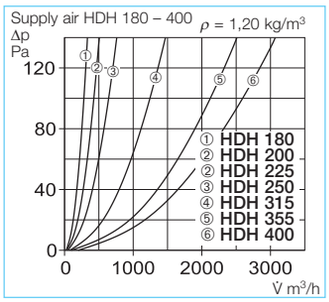
Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	max. air flow temp. control	Weight net	Full motor protection device	Ref. no.	5-step speed switch / Frequency inverter	Ref. no.
		min-1	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type		Type	
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54															
VDD 710/6	7458	905	24000	66	5500	12.2	—	1130	50	50	115.0	**MSA**	1289	**FU-BS 14**	5463
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 55															
VDD 710/6 T120[1]	7466	965	24000	66	5500	12.2	—	1130	120	100	130.0	**MSA**	1289	**FU-BS 14**	5463

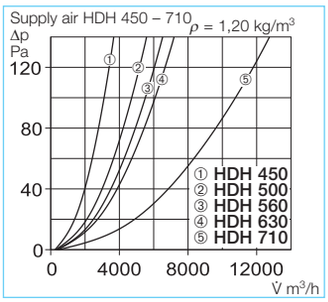
1) Performance curve on www.HeliosSelect.de

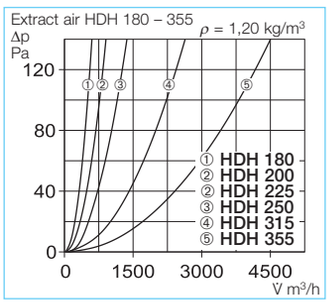
HDH

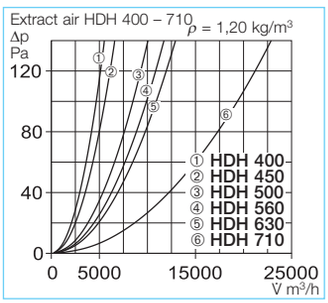


Dim. in mm







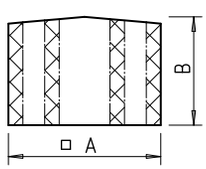


■ **Roof cowl HDH**
For covering the convection and supply air vents on the roof.
Same design as horizontal discharge roof fans RD.
When using in mechanical ventilation systems the emerging flow losses must be considered (see diagram).
Accessories same as for roof fans.

Type	Ref. no.	Nominal size	□ A	□ B	□ C	Ø E	Ø F	H	K	L	Weight net
		mm	mm	mm	mm	mm	mm	mm	mm	mm	approx. kg
HDH 180	7492	180	320	245	309	213	10	155	6 x M6	30	3.5
HDH 200	7493	200	425	330	405	259	10	198	6 x M6	30	5.0
HDH 225	7495	225	425	330	405	259	10	198	6 x M6	30	5.0
HDH 250	7496	250	580	450	450	286	10	255	6 x M6	30	8.0
HDH 315	7497	315	580	450	606	356	12	386	8 x M8	30	12.5
HDH 355	7498	355	645	535	740	395	12	452	8 x M8	30	17.5
HDH 400	7499	400	645	535	765	438	12	478	6 x M8	30	17.5
HDH 450	7491	450	730	590	860	487	12	473	6 x M8	30	26.0
HDH 500	7513	500	925	750	966	541	12	531	6 x M8	40	30.0
HDH 560	7517	560	925	750	1075	605	14	591	8 x M10	40	44.0
HDH 630	7518	630	925	750	1155	674	14	633	8 x M10	40	47.0
HDH 710	7519	710	1260	1050	1370	751	14	860	8 x M10	65	52.0

HSDV

Dim. in mm



■ **Roof fan attenuator HSDV for discharge-side sound insulation**
Average attenuation value 8 dB.
Available for series VD, nominal size 315 – 630.
The construction encloses the roof fan and can be subsequently mounted without any structural alterations. Can only be mounted on VD series.

Type	Ref. no.	A in mm	B in mm
HSDV 315	7476	606	310
HSDV 355	7480	740	350
HSDV 400	7481	765	400
HSDV 450	7482	860	450
HSDV 500	7483	966	500
HSDV 560	7484	1075	550
HSDV 630	7489	1155	620

RS

■ **Isolator switch RS**

RS 3+1+2 Ref. no. 7536

– 3 main contacts
– 1 auxiliary contact
– 2 contacts for TB/TP

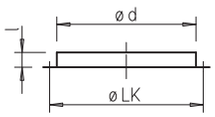
For fans with direct start-up.
Polymer casing for surface mounted installation. Locking options in "0 OFF" position.

Technical data

Voltage	400 V, 3~, 50/60 Hz
Operating current	20 A
Load capacity	AC-23 B, 7.5 kW
Protection class	IP 65
Protection category	II
Actuation	Rotary drive
Temperature range	-25 to +60 °C
Weight approx.	0.3 kg
Dim. mm	W 90.5 x H 90.5 x D 102
Casing	UV and weather-resistant
Wiring diagram no.	1131

FR / DFR

Dim. in mm



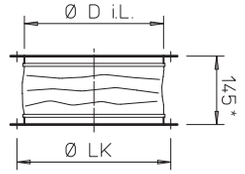
Flange rings FR
Made of galvanised sheet steel, for intake duct connections. Can be screwed directly to the fan base plate.

Dimensions according to DIN 24155, Pt. 2.

Type	Ref. no.	Ø LK	l	Ø d	Weight approx. kg
FR 180	1200	213	25	186	0.4
DFR 200	1201	259	30	233	0.5
FR 225	1201	259	30	233	0.5
FR 250	1203	286	25	256	0.6
FR 315	1204	356	30	326	0.9
FR 355	1205	395	30	365	1.1
FR 400	1206	438	30	408	1.2
FR 450	1207	487	35	457	1.8
FR 500	1208	541	35	511	1.8
FR 560	1209	605	35	574	2.0
FR 630	1211	674	35	642	2.2
FR 710	1212	751	35	715	3.3

STS / DSTS

Dim. in mm



* Type STS 180 = 130 mm

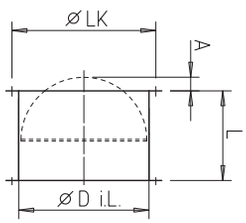
Flanged canvas connector STS
To reduce structure borne sound transmission to intake air ducting. Flanges made of galvanised sheet steel. Flexible sleeve made of polymer fabric. For ex-proof fans, type STS Ex must be used. To be mounted directly to the fan base plate. Flange dimensions according to DIN 24155, Pt. 2. Ambient temperature –30 °C to +80 °C.

Type	Ref. no.	Type*	Ref. no.	Ø D i.L.	Ø LK	Weight approx. kg
STS 180	1217	—	—	183	213	0.9
DSTS 200	1218	**DSTS 200 Ex**	2500	229	259	1.1
STS 225	1218	**STS 225 Ex**	2500	229	259	1.1
STS 250	1220	**STS 250 Ex**	2501	252	286	1.3
STS 315	1221	**STS 315 Ex**	2503	322	356	1.8
STS 355	1222	**STS 355 Ex**	2504	358	395	2.1
STS 400	1223	**STS 400 Ex**	2505	404	438	2.5
STS 450	1224	**STS 450 Ex**	2506	453	487	3.8
STS 500	1225	**STS 500 Ex**	2507	507	541	3.4
STS 560	1226	**STS 560 Ex**	2508	570	605	4.5
STS 630	1228	**STS 630 Ex**	2509	638	674	4.6
STS 710	1229	—	—	711	751	7.0

* for explosion-proof fans. STSB for VD T120 version see separate catalogue.

RVS / DVS

Dim. in mm



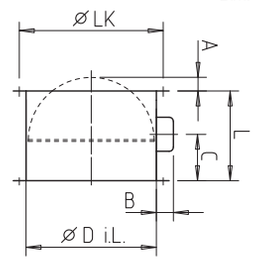
Automatic backdraught shutter with spring reverse RVS [1]
To prevent cold air backdraught when the fan is not in use. For vertical air flow from bottom-up (otherwise type RVM to be used). Auto matic opening function when the fan is in use. Spring mechanism outside the air flow. Holding force adjustable to fan power and installation position. Flaps and casing made of galvanised sheet steel, flaps with nominal size 225 – 560 mm made of aluminium. Can be screwed directly to the fan base plate. Flanges on both sides. Holes pursuant to DIN 24155, Pt. 2.
Ambient temperature –30 to +120 °C

Type	Ref. no.	Ø D i.L.	L	A	Ø LK	Weight approx. kg
DVS 180	1247	180	110	15	213	1.2
DRVS 200	2591	225	300	—	259	3.0
RVS 225	2591	225	300	—	259	3.0
RVS 250	2592	250	300	—	286	3.4
RVS 315	2594	315	300	—	356	4.3
RVS 355	2595	355	300	—	395	5.8
RVS 400	2596	400	330	—	438	7.2
RVS 450	2597	454	330	15	487	10.4
RVS 500	2598	504	330	40	541	11.7
RVS 560	2599	560	330	65	605	16.1
RVS 630	2600	630	400	115	674	19.5
RVS 710	2601	710	400	155	751	26.5

[1] Pressure loss diagram see page 490.

RVM / DRVM

Dim. in mm



Motorised backdraught shutter RVM [1] [2] as RVS, but with spring reversing motor, mounted outside the air flow and for vertical air flow in any direction. Allows natural ventilation when the fan is not in use. Control of air flow in combination with a roof cowl. To be electrically operated together with the fan; cable length 0.9 m, closed when currentless.

Ambient temperature	–30 to +60 °C
Protection class	IP 54
Voltage/Frequency	230 V AC, 50/60 Hz
Power consumption	
– up to Ø 560 / from Ø 630	14 W/6.5 W
Valve opening time, approx.	75 sec.
Wiring diagram no.	380.1

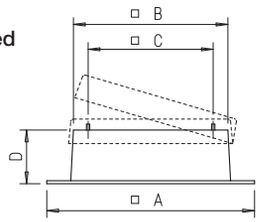
Type	Ref. no.	Ø D i.L.	B	C	L	A	Ø LK	Weight aprx. kg
DRVM 200	2575	225	95	130	300	—	259	3.3
RVM 225	2575	225	95	130	300	—	259	3.3
RVM 250	2576	250	95	130	300	—	286	3.7
RVM 315	2578	315	95	130	300	—	356	4.6
RVM 355	2579	355	95	130	300	—	395	6.1
RVM 400	2580	400	95	130	330	—	438	7.5
RVM 450	2581	454	95	130	330	15	487	10.7
RVM 500	2582	504	95	130	330	40	541	12.0
RVM 560	2583	560	95	130	330	65	605	16.4
RVM 630	2609	630	150	225	400	115	674	21.0
RVM 710	2610	710	150	225	400	155	751	28.0

[2] Types DRVM/RVM not suitable for use in ex-areas.

FDS

Dim. in mm

hinged



Flat roof base FDS [1)]
For installation of roof fans and roof cowls on flat roofs. Horizontal installation. Application keeps cost and assembly effort to a minimum in comparison to manual design. Corrosion-resistant reinforced fibre glass design (nom. size 710 made of galvanised sheet steel) with abrasion-proof, sound and thermal insulation. Snow-secure base height.

Installation
To be installed above the ceiling opening (roof). Roof coating to be covered completely with felt and to be sealed bitumen-fibre kit. Includes mounting screws, profile rubber and sealing between base and base plate.

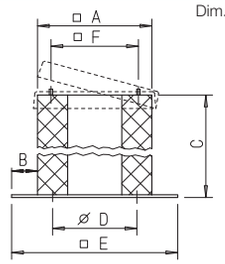
Type	Ref. no.	A in mm	B in mm	C in mm	D in mm
FDS 180*	1377	645	285	245	285
FDS 200*	1378	750	392	330	285
FDS 225*	1378	750	392	330	285
FDS 250*	1379	870	520	450	285
FDS 315*	1379	870	520	450	285
FDS 355*	1380	950	605	535	285
FDS 400*	1380	950	605	535	285
FDS 450*	1381	1000	660	590	285
FDS 500	1382	1160	820	750	285
FDS 560	1382	1160	820	750	285
FDS 630	1382	1160	820	750	285
FDS 710	6658	1550	1190	1050	285

* With hinge mechanism for simple inspection and cleaning. [1)] FDS B for VD T120 see separate catalogue.

SSD

Dim. in mm

hinged



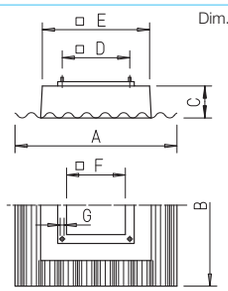
Hinged base attenuator SSD for intake-side sound insulation
Average attenuation is 15 dB.
All metal parts made of galvanised sheet steel. For installation on flat roofs in the same way as a flat roof base. Delivery includes mounting screws, profile rubber and sealing between base and base plate.
For nom. size 500 – 710: Acoustically lined with non-flammable insulation boards, class A2, covered with glass fibre on both sides.
Nom. size 180 – 450: Equipped with hinges to fold the fan for maintenance purposes. Foamed material with free cross-section allows access to ducting or shaft system. Base plate is equipped with threaded holes (according to DIN 24155, Pt. 2) for connection of supply air accessories.

Type	Ref. no.	A	B	C	D	E	F
SSD 180*	5289	280	160	750	213	600	245
SSD 200*	5290	400	133	735	259	666	330
SSD 225*	5290	400	133	735	259	666	330
SSD 250*	5292	520	150	835	286	820	450
SSD 315*	5292	520	150	835	356	820	450
SSD 355*	5024	600	150	985	395	900	535
SSD 400*	5291	600	150	985	438	900	535
SSD 450*	5288	675	158	985	487	990	590
SSD 500	5017	860	170	1200	—	1200	750
SSD 560	5017	860	170	1200	—	1200	750
SSD 630	5017	860	170	1200	—	1200	750
SSD 710	5287	1220	140	1500	—	1500	1050

* With hinge mechanism for simple inspection and cleaning.

WDS

Dim. in mm

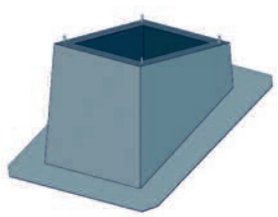


Corrugated roof base WDS
For installation of roof fans and roof cowls on corrugated roofs. Weather-resistant and corrosion-free design made from glass-fibre reinforced polyester, lightweight. No risk of breakage during shipment and on site. Low thermal transmittance value.
Profile distance 177 mm (profile no. 5). Keeps planning costs and installation efforts to a minimum.

Rain drains on the front and rear chamfer between the square base and corrugated plate ensure the installation of corrugated roof panels regardless of the ceiling direction.
Includes screws, washers and profile rubber for the mounting and sealing of the fan base plate.

Type	Ref. no.	A	B	C	D	E	F	G
WDS 180	1559	920	1600	200	245	295	Ø 256	M 6
WDS 200/225	1560	920	1600	200	330	395	290	M 10
WDS 250/315	1561	920	1600	200	450	555	395	M 10
WDS 355/400	1562	920	1600	200	535	625	475	M 10
WDS 450	1563	1400	2000	200	590	705	525	M 12
WDS 500/560	1564	1400	2000	200	750	895	650	M 12
WDS 630	1565	1400	2000	200	750	895	650	M 12

SDS



Installation
Base to be installed on the roof construction. The enclosing collar made of lead to be sealed. Includes mounting screws, plates and sealing between the base and base plate.

Sloping roof base SDS
For installation of roof fans and roof cowls on sloping roofs with slopes of up to 45°.
Made of galvanised sheet steel, with sound and thermal insulated 50 mm thick cladding on the inside.

All SDS models are available on request. When ordering please specify the fan type or the nominal size of roof cowl, the roof pitch angle, the type of brick or the profile shape and height (for profile roofs), if necessary.

Information	Page
All centrifugal roof fans delivered without guard on intake. If there is no duct connected directly to the unit, a guard (model ASD-SGD or SG) must be used.	231

Other accessories	Page
Speed controllers, controllers and switches	525 on