

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

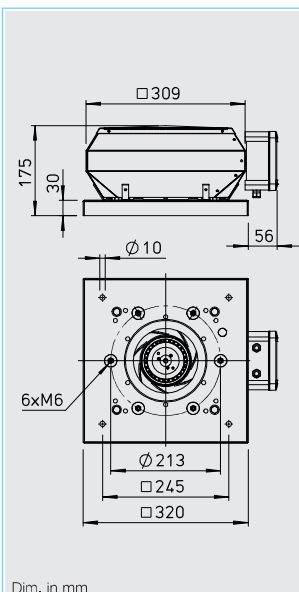
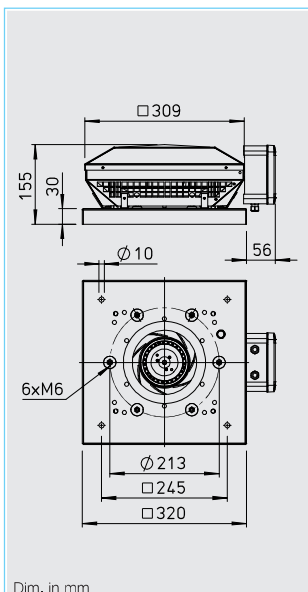
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ 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).



■ 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.

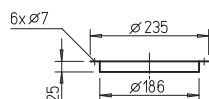
■ Delivery

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

Accessories for Type RD / VD

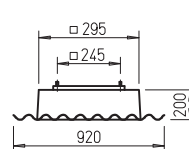
Counterflange FR 180

Ref. no. 1200



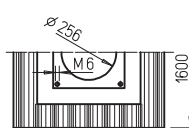
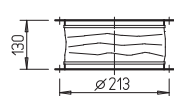
Corrugated roof base, profile 5 WDS 180

Ref. no. 1559



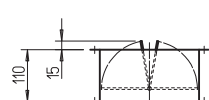
Flanged flexible connector STS 180

Ref. no. 1217



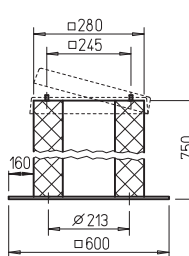
Automatic backdraught shutter DVS 180

Ref. no. 1247



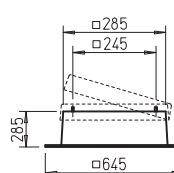
Hinged base attenuator SSD 180

Ref. no. 5289



Hinged flat roof base FDS 180

Ref. no. 1377

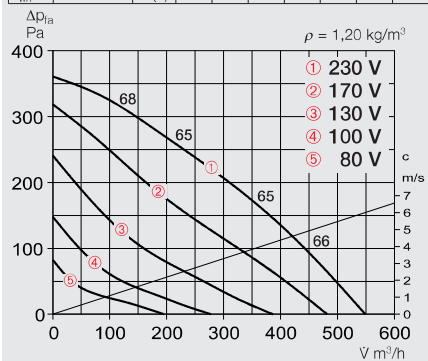


Dim. in mm

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

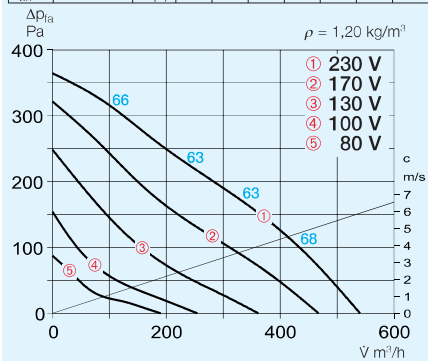
Frequency	Hz	Total	125	250	500	1k	2k	4k
L _{WA} Intake	dB(A)	61	37	48	53	56	55	54
L _{WA} Exhaust	dB(A)	65	38	52	58	62	57	54



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	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 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	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 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

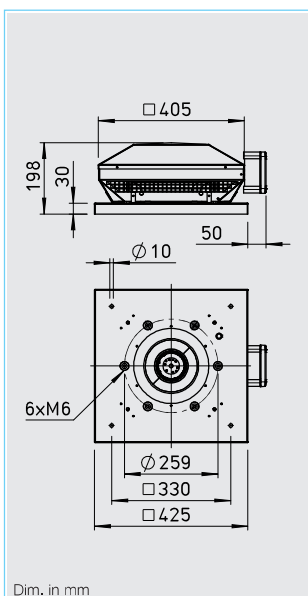
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

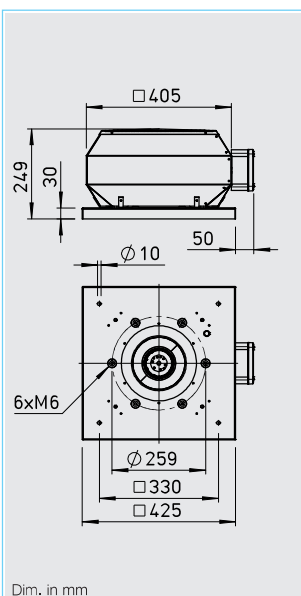
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ Electrical connection

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



Dim. in mm



Dim. in mm

■ 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.

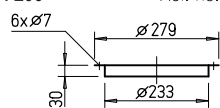
■ Delivery

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

Accessories for Type RD / VD

Counterflange
DFR 200

Ref. no. 1201

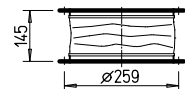
Flanged flexible connector
DSTS 200

Ref. no. 1218

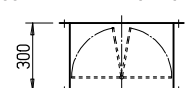
For ex-proof fans

DSTS 200 Ex

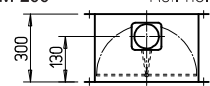
Ref. no. 2500

Automatic backdraught shutter
DRVS 200

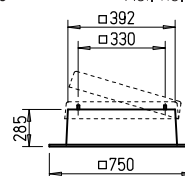
Ref. no. 2591

Motorised backdraught shutter
DRVM 200

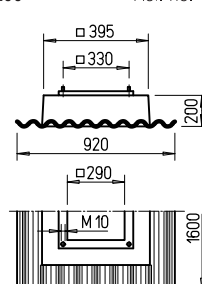
Ref. no. 2575

Hinged flat roof base
FDS 200

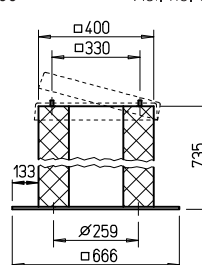
Ref. no. 1378

Corrugated roof base, profile 5
WDS 200

Ref. no. 1560

Hinged base attenuator
SSD 200

Ref. no. 5290

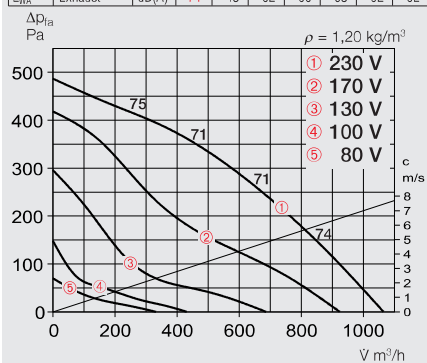


Dim. in mm

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

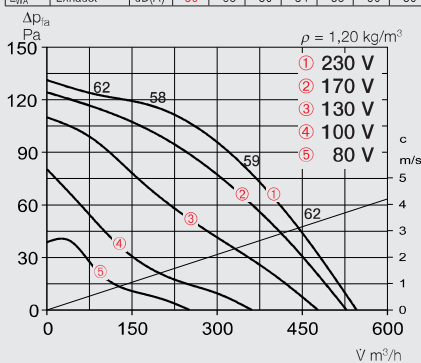
RDW 200/2

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



RDW 200/4

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

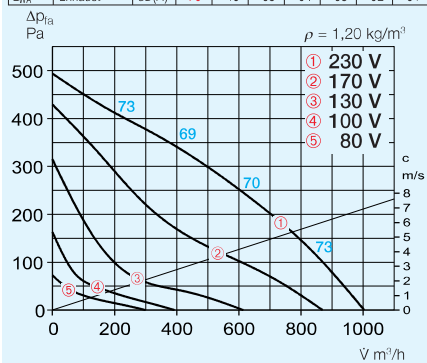


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
Single phase motor 230 V, 50 Hz,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

1) Performance curve on www.HeliosSelect.de

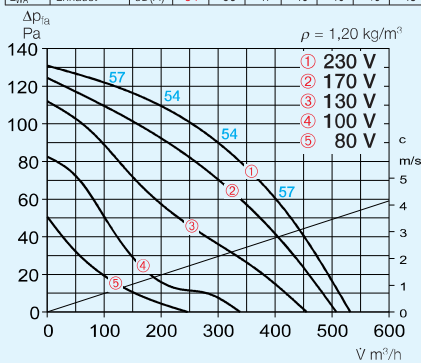
VDW 200/2

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



VDW 200/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L _{WA} Intake		dB(A)	52	35	41	47	46	44
L _{WA} Exhaust		dB(A)	54	38	47	49	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	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
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	7.5	—	TSW 1,5 1495
VDW 200/2	7126	2430	1000	53	125	0.56	0.56	923	70	8.0	—	TSW 1,5 1495
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	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

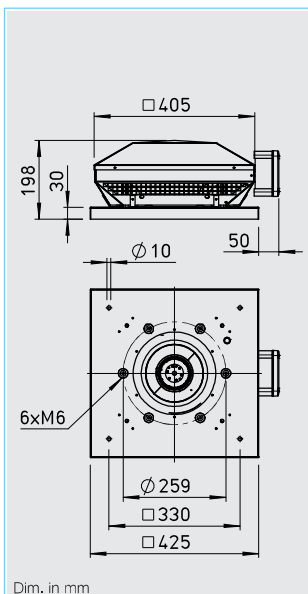
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

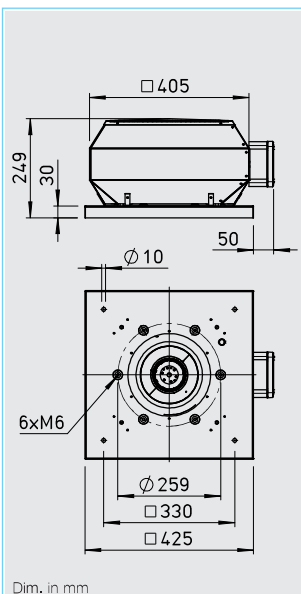
Through built-in thermal contacts, which are wired in series with the winding and automatically switch off at high motor temperatures and back on again after cooling. Ex-proof version with thermal motor protection from built-in PTC thermistor.

■ Electrical connection

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



Dim. in mm



Dim. in mm

■ 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.

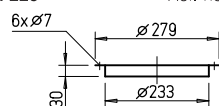
■ Delivery

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

Accessories for Type RD / VD

Counterflange
FR 225

Ref. no. 1201

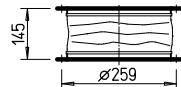
Flanged flexible connector
STS 225

Ref. no. 1218

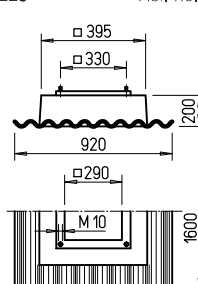
For ex-proof fans

STS 225 Ex

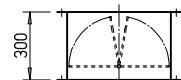
Ref. no. 2500

Corrugated roof base, profile 5
WDS 225

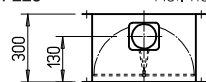
Ref. no. 1560

Automatic backdraught shutter
RVS 225

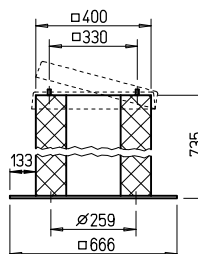
Ref. no. 2591

Motorised backdraught shutter
RVM 225

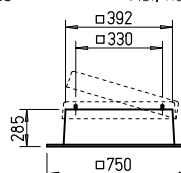
Ref. no. 2575

Hinged base attenuator
SSD 225

Ref. no. 5290

Hinged flat roof base
FDS 225

Ref. no. 1378

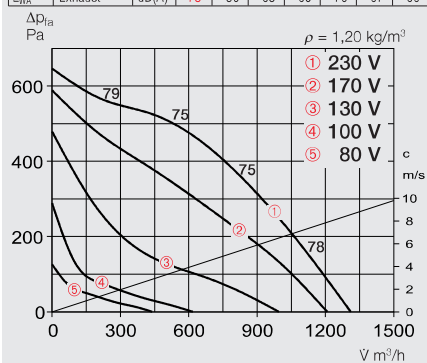


Dim. in mm

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

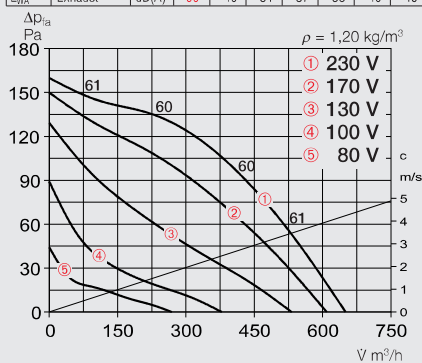
RDW 225/2

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

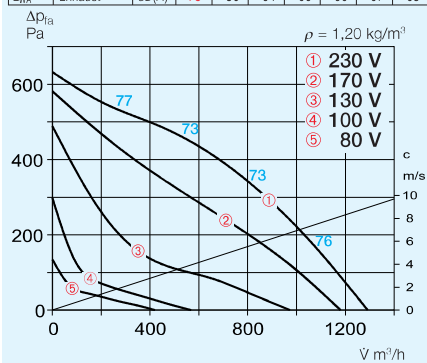


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor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

1) Performance curve on www.HeliosSelect.de

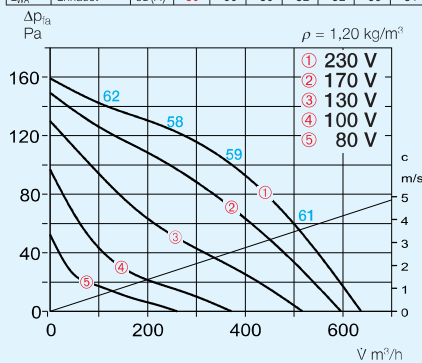
VDW 225/2

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	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
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	8.0	—	TSW 1,5 1495
VDW 225/2	7196	2635	1295	56	208	0.9	1	923	70	9.0	—	TSW 1,5 1495
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	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

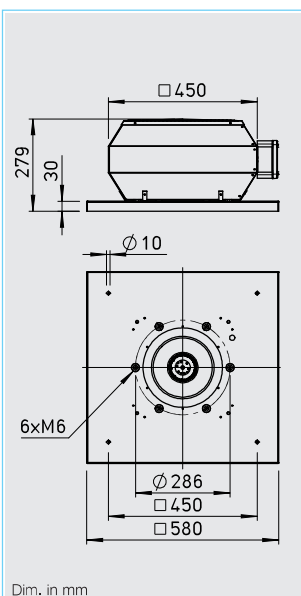
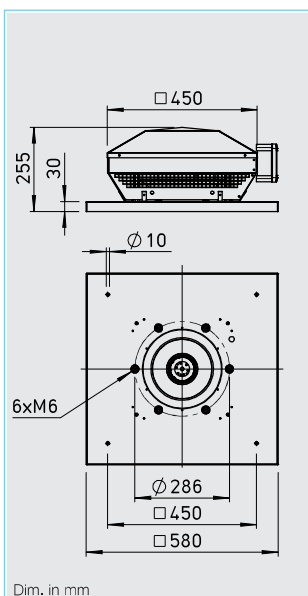
Totally enclosed speed controllable external rotor (IP 44). Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ 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).



■ Guard

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

■ Speed control

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

■ Sound levels

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

- Sound level intake
- Sound level exhaust

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

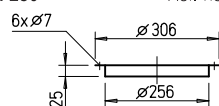
■ Delivery

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

Accessories for Type RD / VD

Counterflange
FR 250

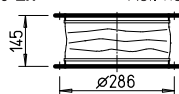
Ref. no. 1203

Flanged flexible connector
STS 250

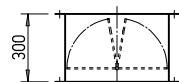
Ref. no. 1220

For ex-proof fans
STS 250 Ex

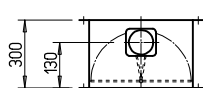
Ref. no. 2501

Automatic backdraught shutter
RVS 250

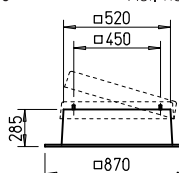
Ref. no. 2592

Motorised backdraught shutter
RVM 250

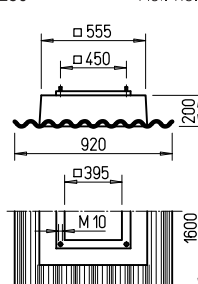
Ref. no. 2576

Hinged flat roof base
FDS 250

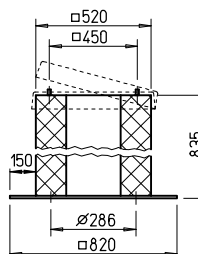
Ref. no. 1379

Corrugated roof base, profile 5
WDS 250

Ref. no. 1561

Hinged base attenuator
SSD 250

Ref. no. 5292

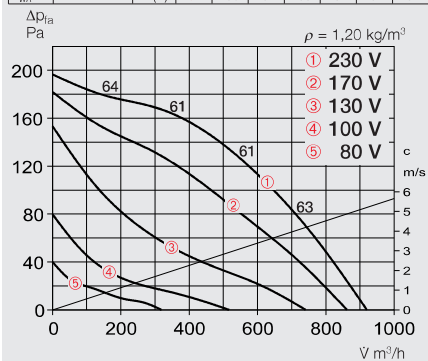


Dim. in mm

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

RDW 250/4

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

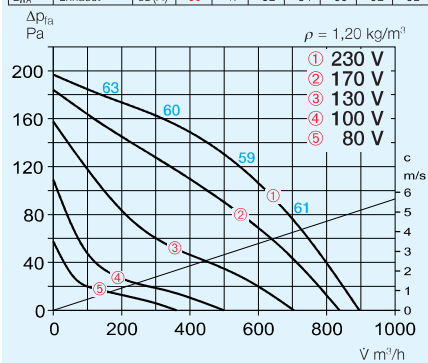


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	flow temp. control	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 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	51	51
L _{WA} Exhaust		dB(A)	60	47	52	54	53	52



Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	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 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.

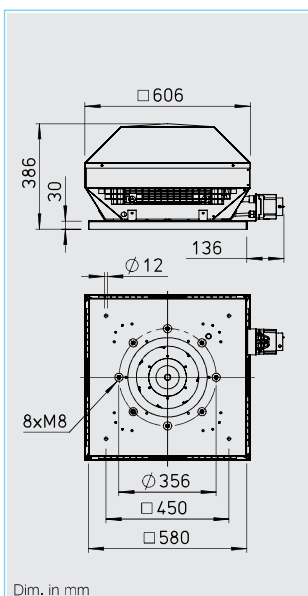
■ Guard

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

■ Speed control

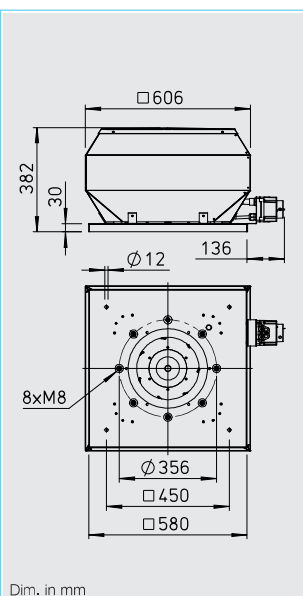
All 1~ types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3~ types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or

Horizontal discharge RD



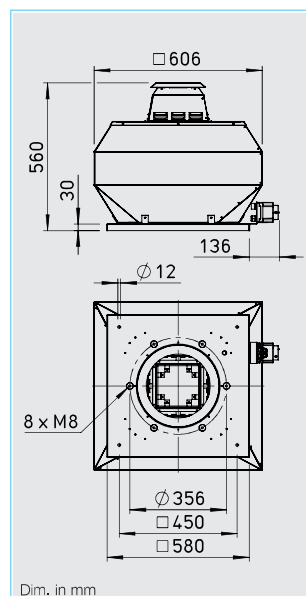
Dim. in mm

Vertical discharge VD



Dim. in mm

VD T120

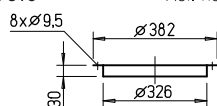


Dim. in mm

Accessories for Type RD / VD*

Counterflange
FR 315

Ref. no. 1204

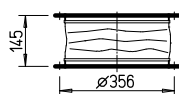
Flanged flexible connector
STS 315

Ref. no. 1221

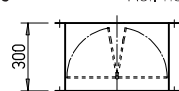
For ex-proof fans

STS 315 Ex

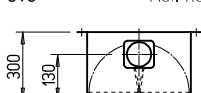
Ref. no. 2503

Automatic backdraught shutter
RVS 315

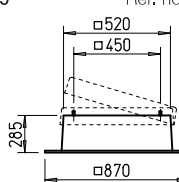
Ref. no. 2594

Motorised backdraught shutter
RVM 315

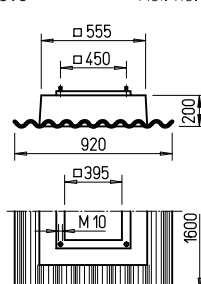
Ref. no. 2578

Hinged flat roof base
FDS 315

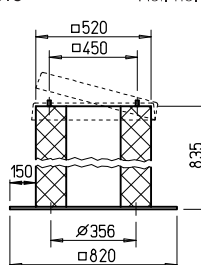
Ref. no. 1379

Corrugated roof base, profile 5
WDS 315

Ref. no. 1561

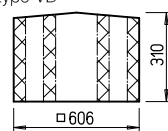
Hinged base attenuator
SSD 315

Ref. no. 5292

Roof fan attenuator
HSDV 315

Ref. no. 7476

only for type VD



Dim. in mm

five-step controllers. See table for assignment.

■ Sound levels

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

- Sound level intake
- Sound level exhaust

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

■ Delivery

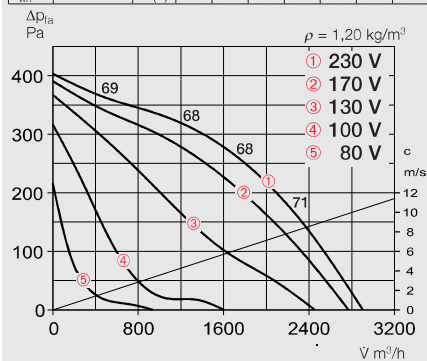
Ready-to-connect, completely pre-assembled in shipping carton.

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

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

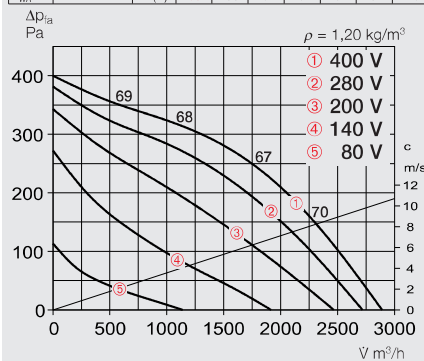
RDW 315/4

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

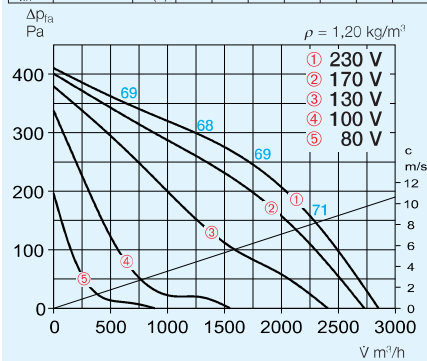


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54												
RDW 315/4	7287	1385	2900	51	300	1.5	2.0	1128	60	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	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	19.5	MSA 1289	TSD 1,5 1501

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

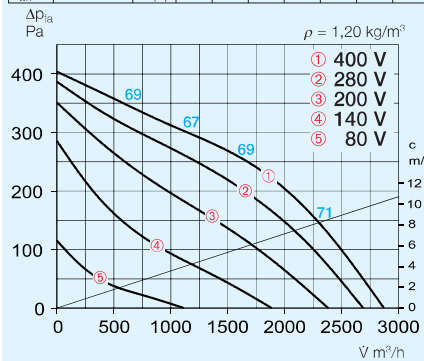
VDW 315/4

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	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°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	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	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	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	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.

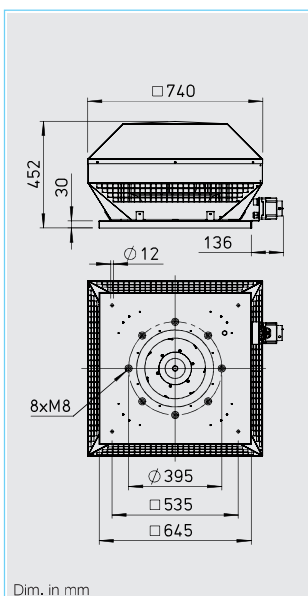
■ Guard

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

■ Speed control

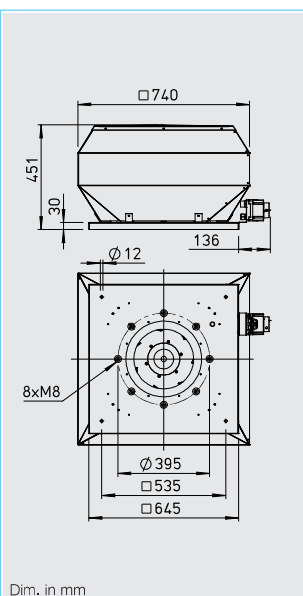
All 1~ types are steplessly speed controllable in the range from 0 – 100 % through electronic speed switch or five-step controller. All 3~ types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with integrated all-pole Sine filter (except ex-proof version) or

Horizontal discharge RD



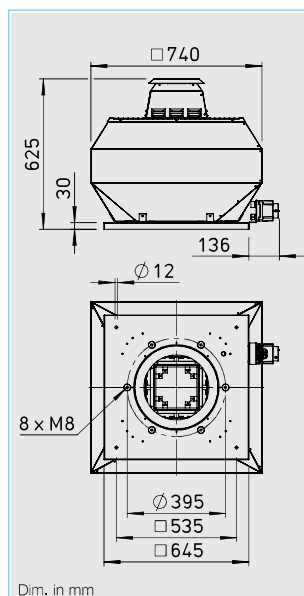
Dim. in mm

Vertical discharge VD



Dim. in mm

VD T120

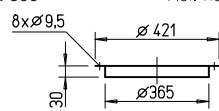


Dim. in mm

Accessories for Type RD / VD*

Counterflange
FR 355

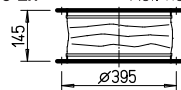
Ref. no. 1205

Flanged flexible connector
STS 355

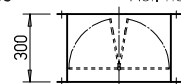
Ref. no. 1222

For ex-proof fans
STS 355 Ex

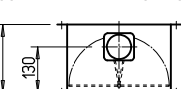
Ref. no. 2504

Automatic backdraught shutter
RVS 355

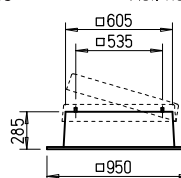
Ref. no. 2595

Motorised backdraught shutter
RVM 355

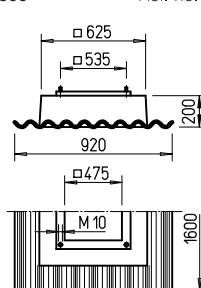
Ref. no. 2579

Hinged flat roof base
FDS 355

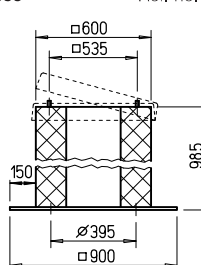
Ref. no. 1380

Corrugated roof base, profile 5
WDS 355

Ref. no. 1562

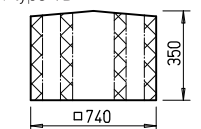
Hinged base attenuator
SSD 355

Ref. no. 5024

Roof fan attenuator
HSDV 355

Ref. no. 7480

only for type VD



Dim. in mm

five-step controllers. See table for assignment.

■ Sound levels

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

- Sound level intake
- Sound level exhaust

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

■ Delivery

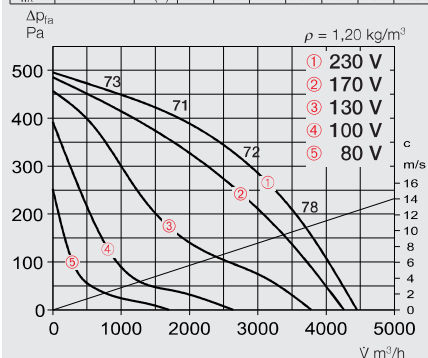
Ready-to-connect, completely pre-assembled in shipping carton.

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

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

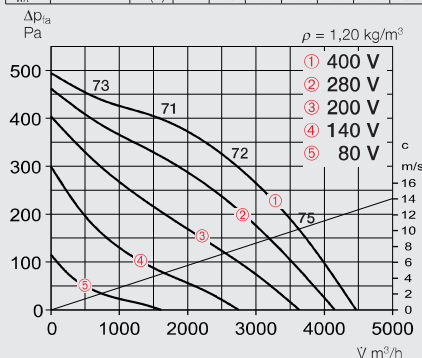
RDW 355/4

Frequency		Hz	Total	125	250	500	1k	2k	4k
L _{WA}	Intake	dB(A)	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

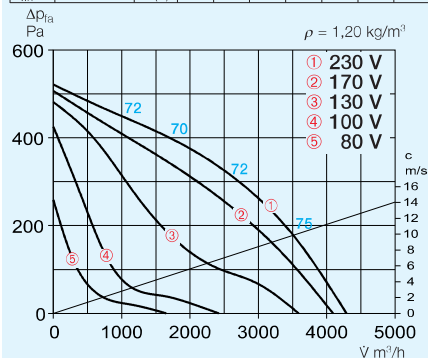


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
Single phase motor 230 V, 50 Hz, capacitor motor, protection to IP 54												
RDW 355/4	7323	1400	4480	55	520	2.55	3.4	1128	70	55	MW	1579
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	MD	5849
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	MSA	1289

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

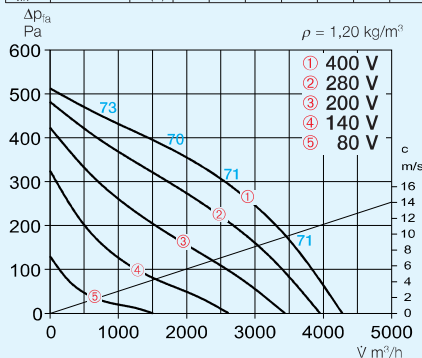
VDW 355/4

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	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	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	MW	1579
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	MD	5849
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	MSA	1289
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	MD	5849

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

Series specification

■ Specification RD

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

■ Specification VD

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

■ Special feature VD T120

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

Specification for all series

■ Casing

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

■ Impeller

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

■ Motor

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

■ Motor protection

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

■ Electrical connection

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

■ Guard

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

■ Speed control

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

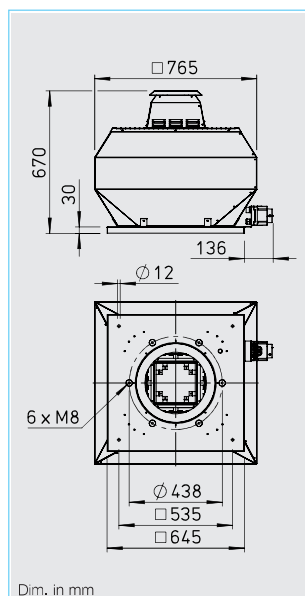
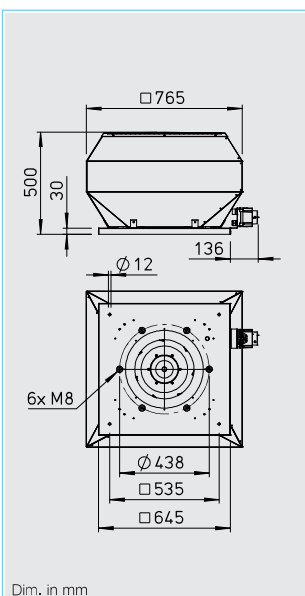
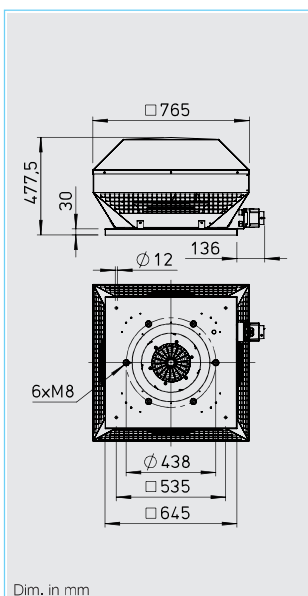
Horizontal discharge RD



Vertical discharge VD

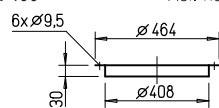
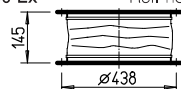


VD T120

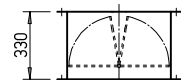


Accessories for Type RD / VD*

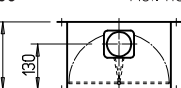
Counterflange FR 400 Ref. no. 1206

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

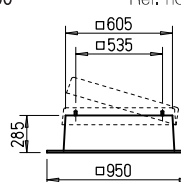
Automatic backdraught shutter RVS 400 Ref. no. 2596



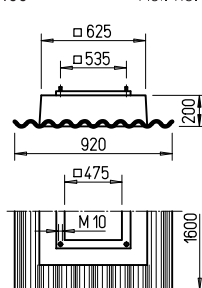
Motorised backdraught shutter RVM 400 Ref. no. 2580



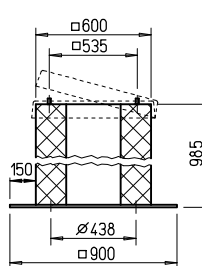
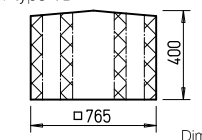
Hinged flat roof base FDS 400 Ref. no. 1380



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

five-step controllers. See table for assignment.

■ Sound levels

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

- Sound level intake
- Sound level exhaust

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

■ Delivery

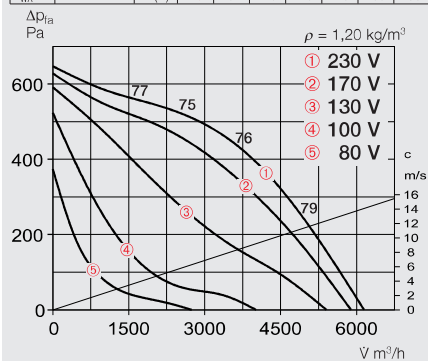
Ready-to-connect, completely pre-assembled in shipping carton.

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

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

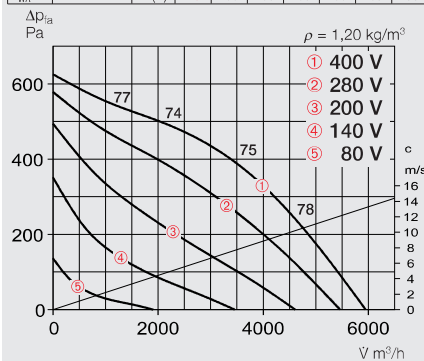
RDW 400/4

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



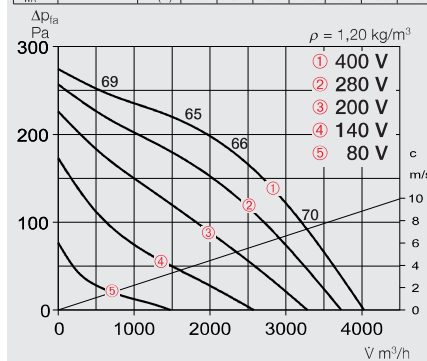
RDD 400/4

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

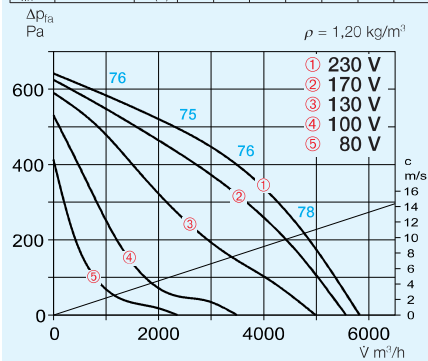


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor 230 V, 50 Hz, capacitor 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

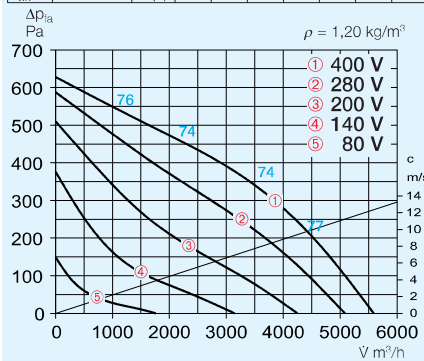
VDW 400/4

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	67	70	70	70	66	59



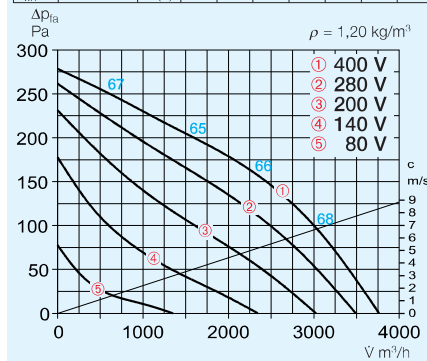
VDD 400/4

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

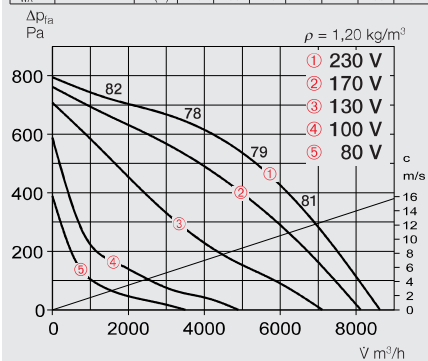


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor 230 V, 50 Hz, capacitor 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

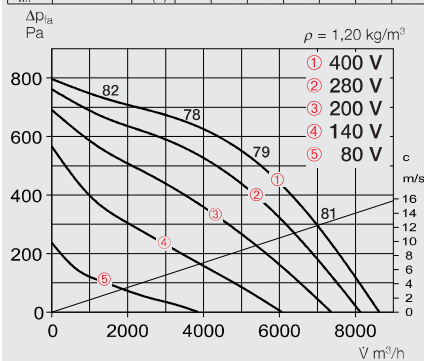
RDW 450/4

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



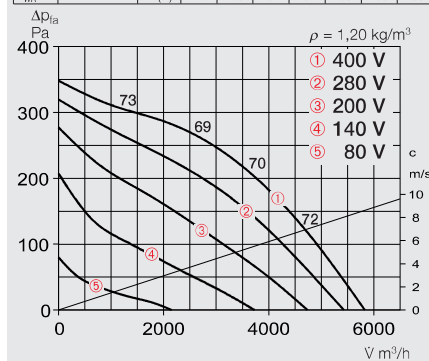
RDD 450/4

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

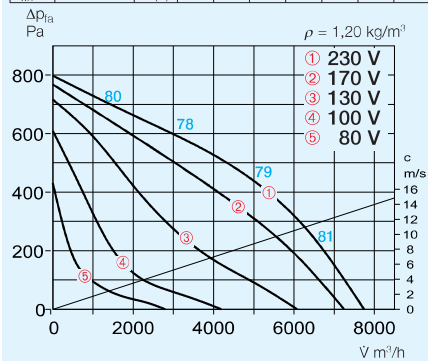


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Single phase motor 230 V, 50 Hz, capacitor 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

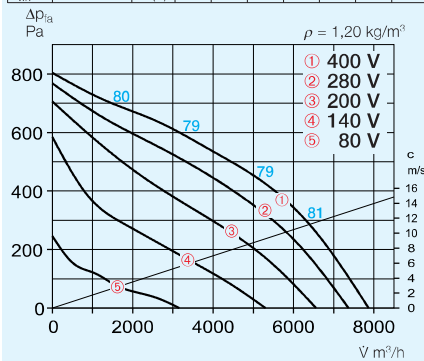
VDW 450/4

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



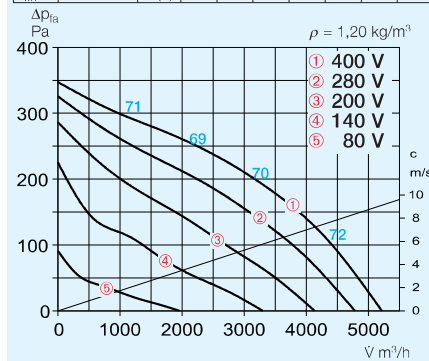
VDD 450/4

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	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°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.

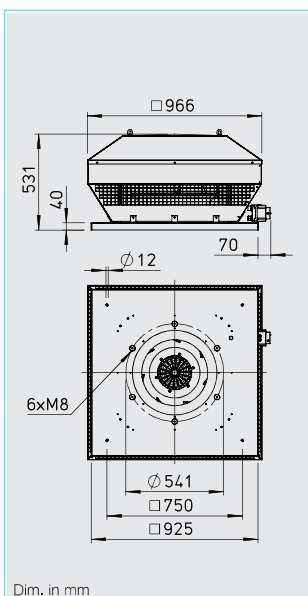
■ Guard

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

■ Speed control

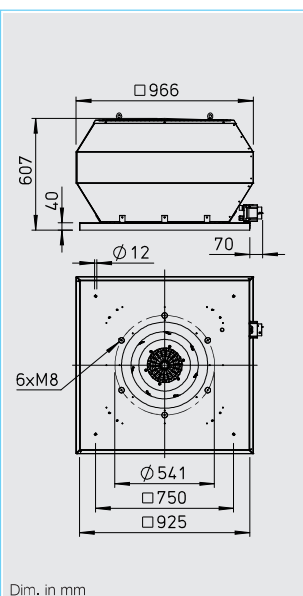
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



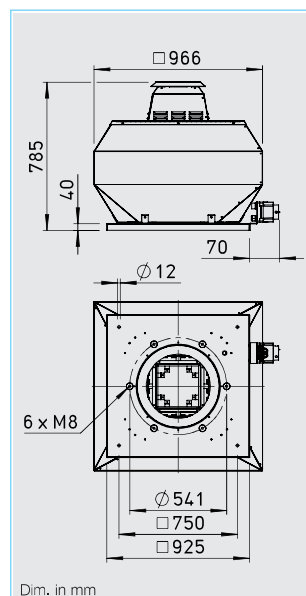
Dim. in mm

Vertical discharge VD



Dim. in mm

VD T120

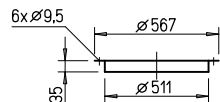


Dim. in mm

Accessories for Type RD / VD*

Counterflange
FR 500

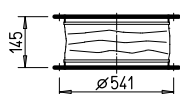
Ref. no. 1208

Flanged flexible connector
STS 500

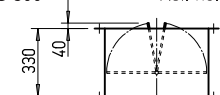
Ref. no. 1225

For ex-proof fans
STS 500 Ex

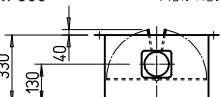
Ref. no. 2507

Automatic backdraught shutter
RVS 500

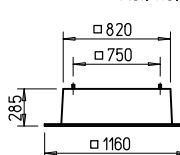
Ref. no. 2598

Motorised backdraught shutter
RVM 500

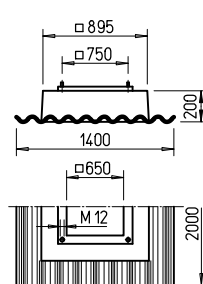
Ref. no. 2582

Flat roof base
FDS 500

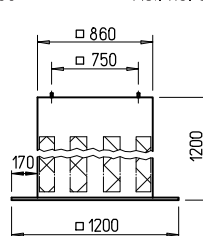
Ref. no. 1382

Corrugated roof base, profile 5
WDS 500

Ref. no. 1564

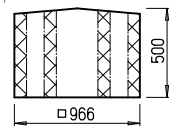
Base attenuator
SSD 500

Ref. no. 5017

Roof fan attenuator
HSDV 500

Ref. no. 7483

only for type VD



Dim. in mm

■ 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

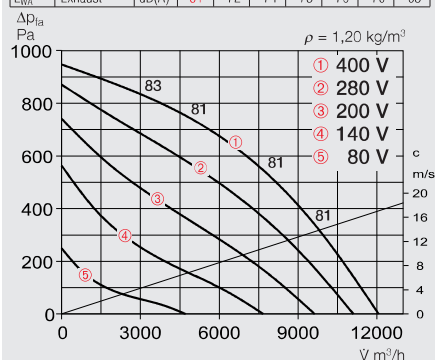
Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

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

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

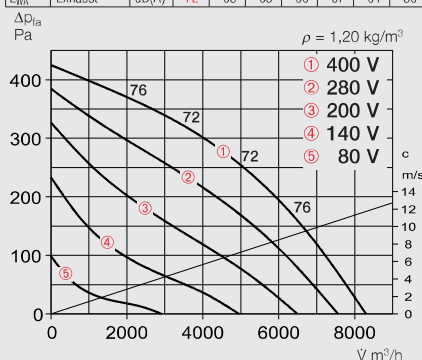
RDD 500/4

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

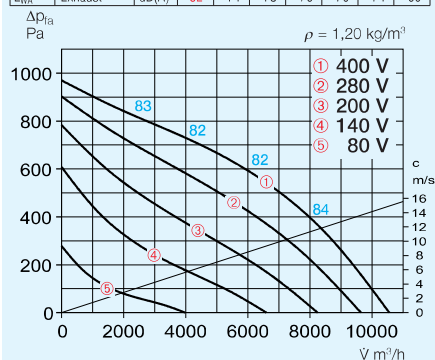


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type Ref. no.	Type Ref. no.
Three phase motor 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	49.0	MD 5849	RDS 2 ²⁾ 1315
RDD 500/4	7409	1340	12100	64	2150	4.15	4.25	1129	55	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	49.0	MSA 1289	TSD 1,5 1501
RDD 500/4 Ex ¹⁾	7416	1420	13030	64	2250	4.5	5.8	—	40	58.0	MSA 1289	TSD 7 1504

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

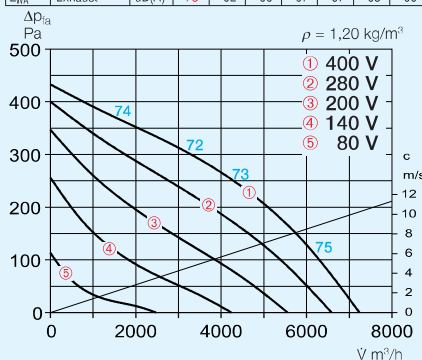
VDD 500/4

Frequency	Hz	Total	125	250	500	1k	2k	4k
L _{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	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	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	51.0	MD 5849	RDS 2 ²⁾ 1315
VDD 500/4	7401	1340	10550	65	2150	4.15	4.25	1129	55	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	51.0	MSA 1289	TSD 1,5 1501
VDD 500/4 Ex ¹⁾	7413	1420	11400	65	2250	4.5	5.8	1129	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	62.0	MD 5849	RDS 4 ²⁾ 1316
VDD 500/4 T120 ¹⁾ *	7418	1440	13060	65	3000	6	—	1130	120	71.0	MSA 1289	FU-BS 14 5463

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

Series specification

■ Specification RD

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

■ Specification VD

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

■ Special feature VD T120

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

Specification for all series

■ Casing

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

■ Impeller

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

■ Motor

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

■ Motor protection

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

■ Electrical connection

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

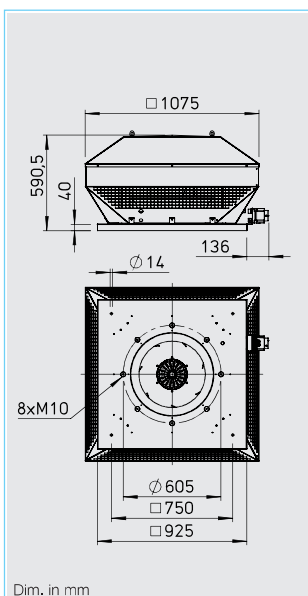
■ Guard

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

■ Speed control

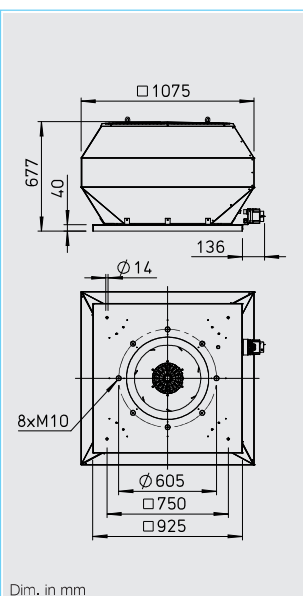
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



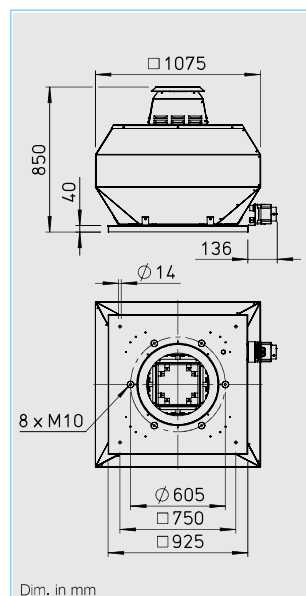
Dim. in mm

Vertical discharge VD



Dim. in mm

VD T120

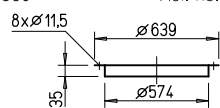


Dim. in mm

Accessories for Type RD / VD*

Counterflange
FR 560

Ref. no. 1209

Flanged flexible connector
STS 560

Ref. no. 1226

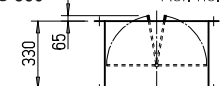
For ex-proof fans

STS 560 Ex

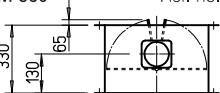
Ref. no. 2508

Automatic backdraught shutter
RVS 560

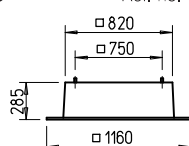
Ref. no. 2599

Motorised backdraught shutter
RVM 560

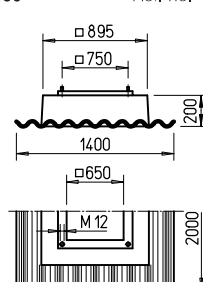
Ref. no. 2583

Flat roof base
FDS 560

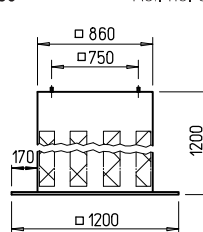
Ref. no. 1382

Corrugated roof base, profile 5
WDS 560

Ref. no. 1564

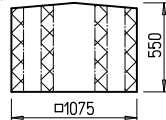
Base attenuator
SSD 560

Ref. no. 5017

Roof fan attenuator
HSDV 560

Ref. no. 7484

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

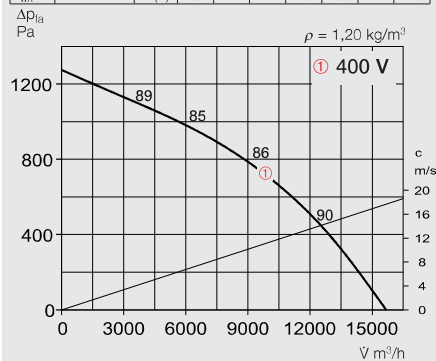
Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

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

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

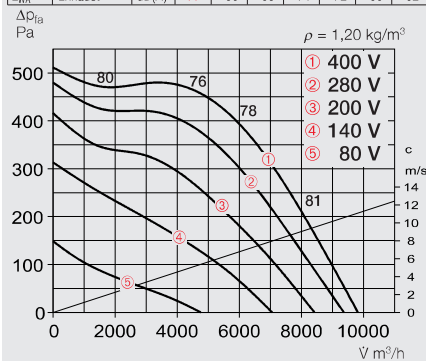
RDD 560/4

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

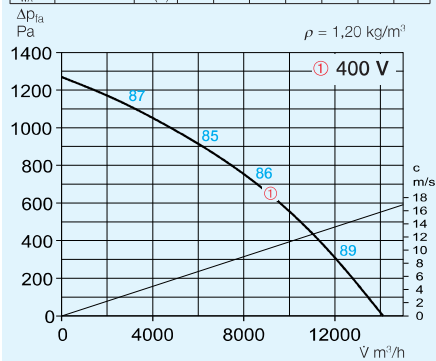


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Current control	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min ⁻¹	m³/h	dB(A) in 4m	W	A	A	No.	°C	kg	Type	Ref. no.
Three phase 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	73.0	MD	RDS 7 ²⁾ 1578
RDD 560/4	7426	1385	15700	69	4430	6.4	—	1130	55	83.0	MD	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	73.0	MSA	TSD 3 1502

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

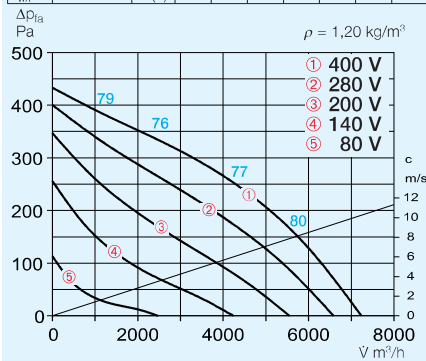
VDD 560/4

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	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	kg	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	77.0	MD	RDS 7 ²⁾ 1578
VDD 560/4	7420	1385	14100	69	4430	6.4	—	1130	55	77.0	MD	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	92.0	MSA	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	92.0	MD	RDS 7 ²⁾ 1578
VDD 560/4 T120 ¹⁾ *	7436	1460	18830	69	5500	11.5	—	1130	120	102.0	MSA	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.

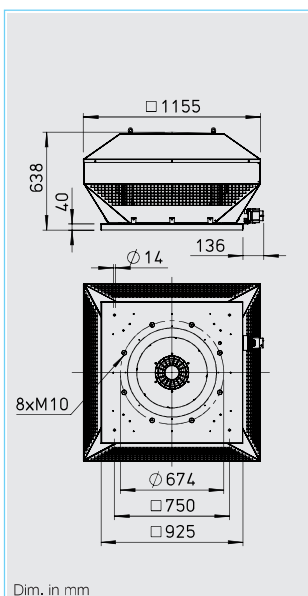
■ Guard

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

■ Speed control

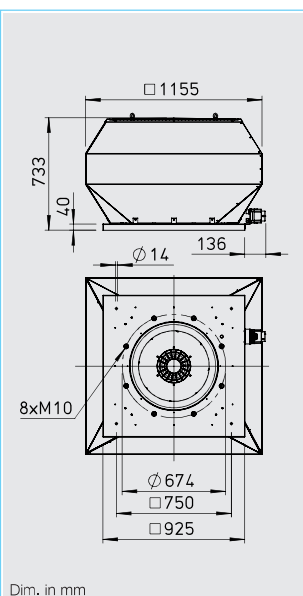
All types are steplessly speed controllable in the range from 0 – 100 % with a frequency inverter with an integrated, all-pole sine filter (except ex-proof version) or five-step controllers (except devices with FU). See table for assignment.

Horizontal discharge RD



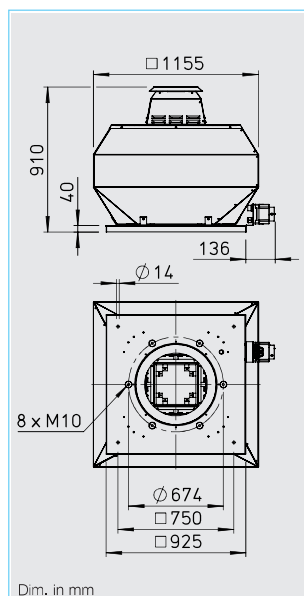
Dim. in mm

Vertical discharge VD



Dim. in mm

VD T120

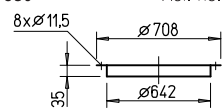


Dim. in mm

Accessories for Type RD / VD*

Counterflange
FR 630

Ref. no. 1211

Flanged flexible connector
STS 630

Ref. no. 1228

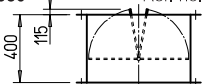
For ex-proof fans

STS 630 Ex

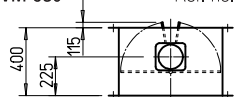
Ref. no. 2509

Automatic backdraught shutter
RVS 630

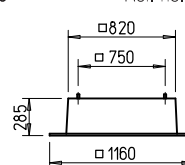
Ref. no. 2600

Motorised backdraught shutter
RVM 630

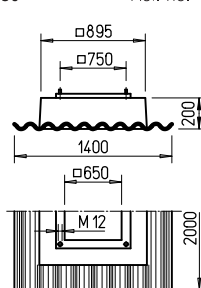
Ref. no. 2609

Flat roof base
FDS 630

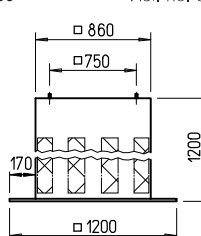
Ref. no. 1382

Corrugated roof base, profile 5
WDS 630

Ref. no. 1565

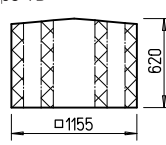
Base attenuator
SSD 630

Ref. no. 5017

Roof fan attenuator
HSDV 630

Ref. no. 7489

only for type VD



Dim. in mm

■ 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

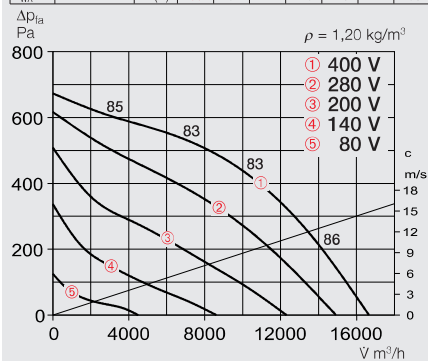
Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

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

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

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

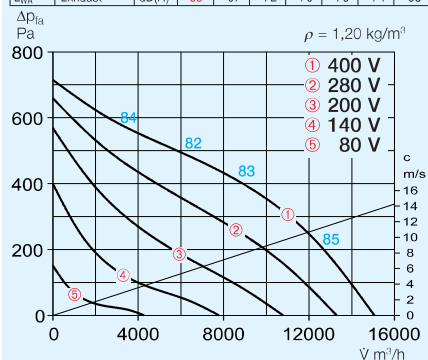


Type	Ref. no.	R.P.M.	Air flow volume (FID)	Sound pressure level	Motor power	Current full load	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°C	kg	Type	Type
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 54											
RDD 630/6	7447	875	16650	66	2380	4.7	5.2	1129	55	45	87.0
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3											
RDD 630/6 Ex¹⁾	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	Wiring diagram	max. air flow temp. full load	Weight net	Full motor protection device	5-step speed switch / Frequency inverter
		min ⁻¹	m³/h	dB(A) in 4m	W	A	No.	°C	kg	Type	Type
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
Explosion-proof, three phase motor 400 V, 50 Hz, protection to IP 44, temp. class T1-T3											
VDD 630/6 Ex¹⁾	7448	945	14100	66	2000	4.4	4.4	1129	40	40	90.0
Three phase motor 400 V, 50 Hz, squirrel-cage rotor, protection to IP 55											
VDD 630/6 T120¹⁾	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

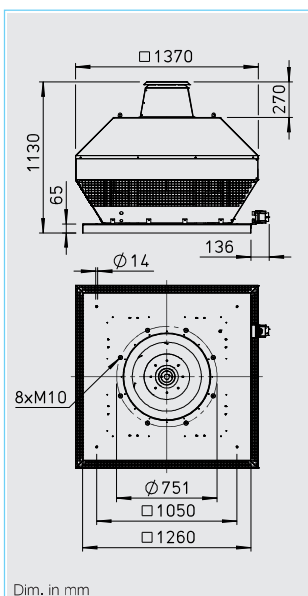
Totally enclosed speed controllable IEC standard motor with self-ventilation IP 55. Ball bearing mounted with moisture protection. Maintenance-free and interference-free.

■ Motor protection

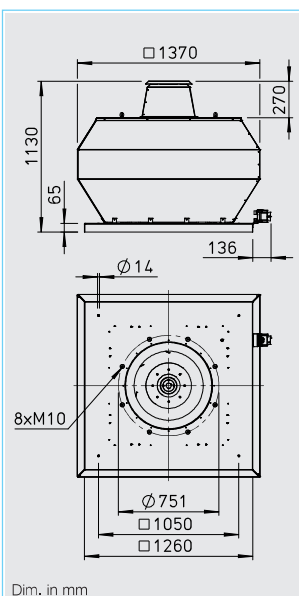
Through built-in thermal contacts or built-in PTC thermistor, which must be connected to a full motor protection device. See type table for assignment.

■ Electrical connection

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



Dim. in mm



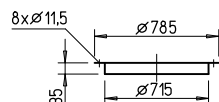
Dim. in mm

Accessories for Type RD / VD*

Counterflange

FR 710

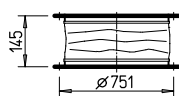
Ref. no. 1212



Flanged flexible connector

STS 710

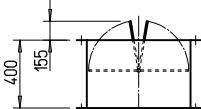
Ref. no. 1229



Automatic backdraught shutter

RVS 710

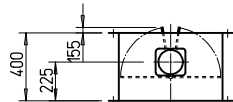
Ref. no. 2601



Motorised backdraught shutter

RVM 710

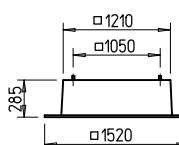
Ref. no. 2610



Flat roof base

FDS 710

Ref. no. 6658

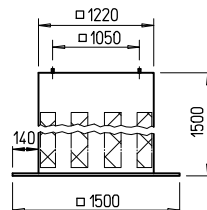


Dim. in mm

Base attenuator

SSD 710

Ref. no. 5287



■ 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

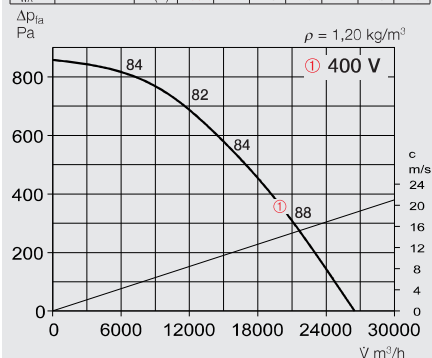
Ready-to-connect, completely pre-assembled in shipping carton. Simple positioning with stand crane hooks.

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

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

RDD 710/6

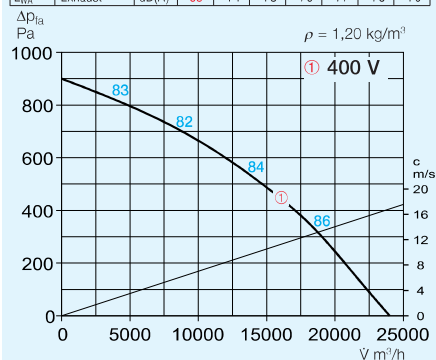
Frequency	Hz	Total	125	250	500	1k	2k	4k
L _{WA} Intake	dB(A)	79	68	71	71	72	74	68
L _{WA} Exhaust	dB(A)	83	71	73	76	77	78	70



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	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.
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	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.
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