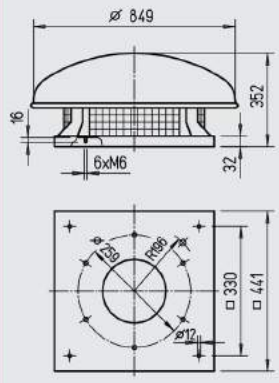
RD EC



Dim. in mm

50% Saving *

* with speed control

Specification
Centrifugal roof fan with horizontal discharge. Flat design with large overlaying rain cowl.

Casing
Base plate (with inlet cone) and other parts made of galvanised steel. Rain cowl and protection grille made of aluminium. Base plate with threaded bolt for connection of intake air accessories.

Impeller
High performance backward curved centrifugal impeller made of galvanised sheet steel, dynamically balanced with the motor unit.

Motor
Energy saving, speed controllable EC-external rotor motor with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free.

Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

Electrical connection
Terminal box (protection to IP 55) located beneath rain cowl as standard.

Guard
On the outlet as standard, compliant with DIN EN ISO 13857.

Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table).
Duties at different speeds are specified in the performance curve.

Delivery
Fully assembled, ready to connect unit.

Sound levels
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound power intake
- Sound power exhaust

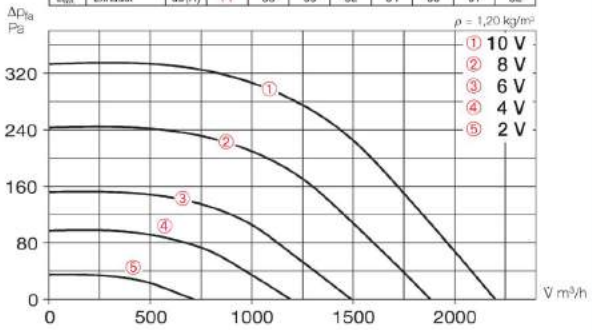
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Connection Ø	R.P.M.	Air flow volume (FID)	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		mm	min^{-1}	V m^3/h	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase motor, 230 V, 50/60 Hz, EC motor, IP 44																
RDW EC 225	1630	225	1850	2200	51	0.22	0.96	994	40	30.0	**EUR EC** [1) 2)]	1347	**PU 10** [3)]	1734	**PA 10** [3)]	1735

1) several EC fans can normally be connected 2) alternative electronic pressure/temperature controller (EDR/ETR, No. 1437/1438) in connection with the power supply NG24, No. 1439, see accessories
3) without LED power supply

RDW EC 225

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Intake	dB(A)	71	64	69	62	61	59	56	47
L_{WA}	Exhaust	dB(A)	71	53	66	62	64	66	61	52



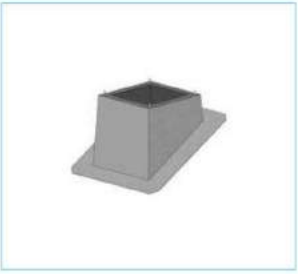
	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1850	2200	165	0,79	51	0,27
8	1580	1880	105	0,51	48	0,20
6	1250	1490	55	0,27	43	0,13
4	1000	1190	32	0,17	38	0,10

Accessory details	Page
Roof mounting accessories	485
Ventilation grilles	487 on
Extract elements	500 on
Intake elements	512 on
Fire protection elements	516 on
Universal control system, electronic controller, speed-potentiometer	539 on

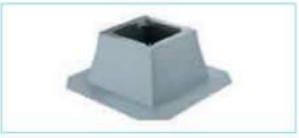
Accessories

Hinged base attenuator
Type SSD 225 Ref. no. 5290
With folding mechanism for easy revision and cleaning. Average attenuation is 15 dB. For intake attenuation. All metal parts made of galvanised sheet steel.

Sloping roof base
Type SDS upon request
For profile and tiled roofs. Made from galvanised sheet steel, with sound and heat-insulated cladding on the inside. Roof pitch up to 45°.



Flat roof base
Type FDS 225 Ref. no. 1378
With folding mechanism for easy inspection and cleaning.



Corrugated roof base
Type WDS 225 Ref. no. 1560
For EC roof fans and roof cowls on corrugated roof, slope to 25° allowed. Made from corrosion resistant glass reinforced polyester (profile no. 5).

Counterflange
Type FR 225 Ref. no. 1201
Made from galvanised sheet steel, for intake duct connection.

Flanged flexible connector
Type STS 225 Ref. no. 1218
To reduce vibration transmission in intake air ducting. Flanges made of galvanised steel.

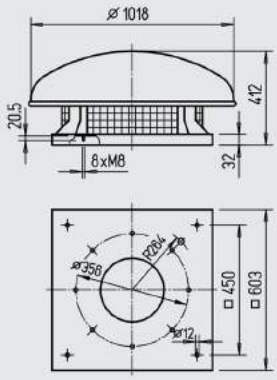
Backdraught shutter
Type RVS 225 Ref. no. 2591
Automatic, made from galvanised sheet steel, flaps made of aluminium. To prevent cold air backdraught when the fan is not in use. For vertical air flow bottom-up position.

Motorised backdraught shutter
Type RVM 225 Ref. no. 2575
As RVS, but with spring reversing motor, mounted outside the air flow and for vertical air flow in any direction.

Universal control system
Type EUR EC Ref. no. 1347
For stepless control or adjustment of single and three phase EC-fans with an input control signal of 0–10 V DC.

Speed-potentiometer
Type PU/PA 10 see type table
For direct control or nominal value preset of EC-fans with potentiometer input.

RD EC



Dim. in mm

55% Saving *

* with speed control

Specification
Centrifugal roof fan with horizontal discharge. Flat design with large overlaying rain cowl.

Casing
Base plate (with inlet cone) and other parts made of galvanised steel. Rain cowl and protection grille made of aluminium. Base plate with threaded bolt for connection of intake air accessories.

Impeller
High performance backward curved centrifugal impeller made of galvanised sheet steel, dynamically balanced with the motor unit.

Motor
Energy saving, speed controllable EC-external rotor motor with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free.

Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

Electrical connection
Terminal box (protection to IP 55) located beneath rain cowl as standard.

Guard
On the outlet as standard, compliant with DIN EN ISO 13857.

Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table).
Duties at different speeds are specified in the performance curve.

Delivery
Fully assembled, ready to connect unit.

Sound levels
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound power intake
- Sound power exhaust

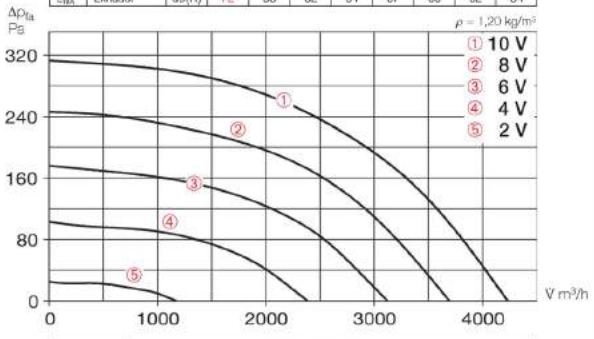
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Connection Ø	R.P.M.	Air flow volume (FID)	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		mm	min^{-1}	V m^3/h	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase motor, 230 V, 50/60 Hz, EC motor, IP 44																
RDW EC 315	1632	315	1260	4230	52	0.40	1.80	994	40	40.0	**EUR EC** [1) 2)]	1347	**PU 10** [3)]	1734	**PA 10** [3)]	1735

1) several EC fans can normally be connected 2) alternative electronic pressure/temperature controller (EDR/ETR, No. 1437/1438) in connection with the power supply NG24, No. 1439, see accessories
3) without LED power supply

RDW EC 315

Frequency		Hz	total	125	250	500	1k	2k	4k	8k
L_{WA}	Intake	dB(A)	70	63	64	62	62	59	59	52
L_{WA}	Exhaust	dB(A)	72	58	62	64	67	66	62	54



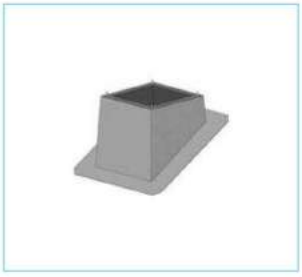
	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1260	4230	310	1,50	52	0,26
8	1100	3690	210	1,02	49	0,21
6	930	3120	130	0,64	45	0,15
4	710	2380	60	0,33	40	0,10

Accessory details	Page
Roof mounting accessories	485
Ventilation grilles	487 on
Extract elements	500 on
Intake elements	512 on
Fire protection elements	516 on
Universal control system, electronic controller, speed-potentiometer	539 on

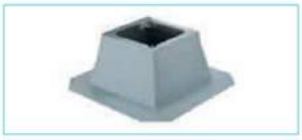
Accessories

Hinged base attenuator
Type SSD 315 Ref. no. 5292
With folding mechanism for easy revision and cleaning. Average attenuation is 15 dB. For intake attenuation. All metal parts made of galvanised sheet steel.

Sloping roof base
Type SDS upon request
For profile and tiled roofs. Made from galvanised sheet steel, with sound and heat-insulated cladding on the inside. Roof pitch up to 45°.



Flat roof base
Type FDS 315 Ref. no. 1379
With folding mechanism for easy inspection and cleaning.



Corrugated roof base
Type WDS 315 Ref. no. 1561
For EC roof fans and roof cowls on corrugated roof, slope to 25° allowed. Made from corrosion resistant glass reinforced polyester (profile no. 5).

Counterflange
Type FR 315 Ref. no. 1204
Made from galvanised sheet steel, for intake duct connection.

Flanged flexible connector
Type STS 315 Ref. no. 1221
To reduce vibration transmission in intake air ducting. Flanges made of galvanised steel.

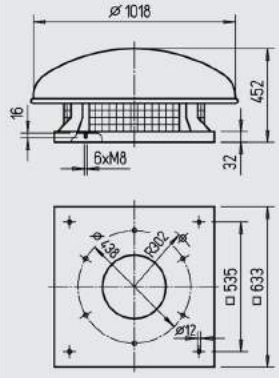
Backdraught shutter
Type RVS 315 Ref. no. 2594
Automatic, made from galvanised sheet steel, flaps made of aluminium. To prevent cold air backdraught when the fan is not in use. For vertical air flow bottom-up position.

Motorised backdraught shutter
Type RVM 315 Ref. no. 2578
As RVS, but with spring reversing motor, mounted outside the air flow and for vertical air flow in any direction.

Universal control system
Type EUR EC Ref. no. 1347
For stepless control or adjustment of single and three phase EC-fans with an input control signal of 0–10 V DC.

Speed-potentiometer
Type PU/PA 10 see type table
For direct control or nominal value preset of EC-fans with potentiometer input.

RD EC



Dim. in mm

60% Saving *

* with speed control

Specification
Centrifugal roof fan with horizontal discharge. Flat design with large overlaying rain cowl.

Casing
Base plate (with inlet cone) and other parts made of galvanised steel. Rain cowl and protection grille made of aluminium. Base plate with threaded bolt for connection of intake air accessories.

Impeller
High performance backward curved centrifugal impeller made of galvanised sheet steel, dynamically balanced with the motor unit.

Motor
Energy saving, speed controllable EC-external rotor motor with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free.

Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

Electrical connection
Terminal box (protection to IP 55) located beneath rain cowl as standard.

Guard
On the outlet as standard, compliant with DIN EN ISO 13857.

Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table).
Duties at different speeds are specified in the performance curve.

Delivery
Fully assembled, ready to connect unit.

Sound levels
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound power intake
- Sound power exhaust

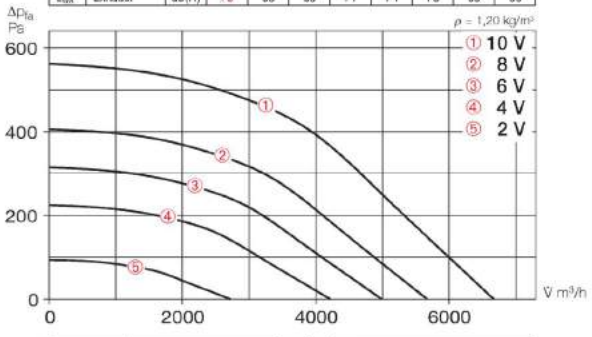
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Connection Ø	R.P.M.	Air flow volume (FID)	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		mm	min^{-1}	V m^3/h	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase motor, 230 V, 50/60 Hz, EC motor, IP 44																
RDW EC 400	1634	400	1470	6670	59	1.05	4.60	994	40	45.0	**EUR EC** [1) 2)]	1347	**PU 10** [3)]	1734	**PA 10** [3)]	1735

1) several EC fans can normally be connected 2) alternative electronic pressure/temperature controller (EDR/ETR, No. 1437/1438) in connection with the power supply NG24, No. 1439, see accessories
3) without LED power supply

RDW EC 400

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Intake	dB(A)	77	70	71	69	69	66	66	59
L_{WA}	Exhaust	dB(A)	79	65	69	71	74	73	69	60



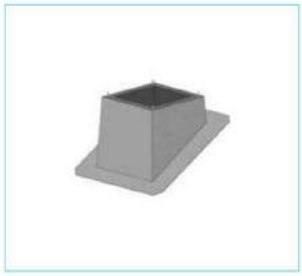
	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1470	6670	800	3,86	59	0,43
8	1250	5670	495	2,40	56	0,32
6	1100	4990	340	1,64	53	0,25
4	930	4220	210	1,14	50	0,18

Accessory details — Page

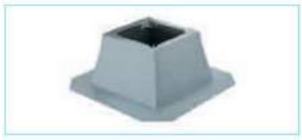
Accessories

Hinged base attenuator
Type SSD 400 Ref. no. 5291
With folding mechanism for easy revision and cleaning. Average attenuation is 15 dB. For intake attenuation. All metal parts made of galvanised sheet steel.

Sloping roof base
Type SDS upon request
For profile and tiled roofs. Made from galvanised sheet steel, with sound and heat-insulated cladding on the inside. Roof pitch up to 45°.



Flat roof base
Type FDS 400 Ref. no. 1380
With folding mechanism for easy inspection and cleaning.



Corrugated roof base
Type WDS 400 Ref. no. 1562
For EC roof fans and roof cowls on corrugated roof, slope to 25° allowed. Made from corrosion resistant glass reinforced polyester (profile no. 5).

Counterflange
Type FR 400 Ref. no. 1206
Made from galvanised sheet steel, for intake duct connection.

Flanged flexible connector
Type STS 400 Ref. no. 1223
To reduce vibration transmission in intake air ducting. Flanges made of galvanised steel.

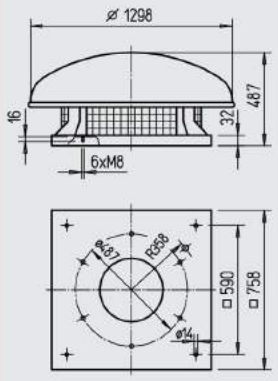
Backdraught shutter
Type RVS 400 Ref. no. 2596
Automatic, made from galvanised sheet steel, flaps made of aluminium. To prevent cold air backdraught when the fan is not in use. For vertical air flow bottom-up position.

Motorised backdraught shutter
Type RVM 400 Ref. no. 2580
As RVS, but with spring reversing motor, mounted outside the air flow and for vertical air flow in any direction.

Universal control system
Type EUR EC Ref. no. 1347
For stepless control or adjustment of single and three phase EC-fans with an input control signal of 0–10 V DC.

Speed-potentiometer
Type PU/PA 10 see type table
For direct control or nominal value preset of EC-fans with potentiometer input.

RD EC



Dim. in mm

ECgreen Vent **55% Saving *** * with speed control

■ **Specification**
Centrifugal roof fan with horizontal discharge. Flat design with large overlaying rain cowl.

□ **Casing**
Base plate (with inlet cone) and other parts made of galvanised steel. Rain cowl and protection grille made of aluminium. Base plate with threaded bolt for connection of intake air accessories.

□ **Impeller**
High performance backward curved centrifugal impeller made of galvanised sheet steel, dynamically balanced with the motor unit.

□ **Motor**
Energy saving, speed controllable EC-external rotor motor with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free.

□ **Motor protection**
Integrated electronic temperature monitoring for EC-motor and electronics.

□ **Electrical connection**
Terminal box (protection to IP 55) located beneath rain cowl as standard.

□ **Guard**
On the outlet as standard, compliant with DIN EN ISO 13857.

□ **Speed control**
Stepless speed control with potentiometer or stepless speed control with universal control system (see table).
Duties at different speeds are specified in the performance curve.

□ **Delivery**
Fully assembled, ready to connect unit.

■ **Sound levels**
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound power intake
- Sound power exhaust

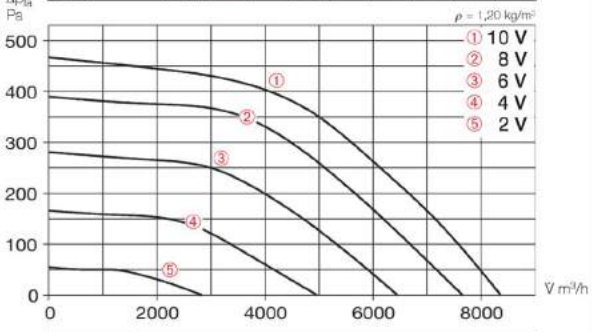
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Connection Ø	R.P.M.	Air flow volume (FID)	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		mm	min^{-1}	V m^3/h	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase motor, 230 V, 50/60 Hz, EC motor, IP 44																
RDW EC 450	1636	450	1180	8360	56	1.02	4.50	994	40	75.0	**EUR EC** [1) 2)]	1347	**PU 10** [3)]	1734	**PA 10** [3)]	1735

1) several EC fans can normally be connected 2) alternative electronic pressure/temperature controller (EDR/ETR, No. 1437/1438) in connection with the power supply NG24, No. 1439, see accessories
3) without LED power supply

RDW EC 450

Frequency		Hz	total	125	250	500	1k	2k	4k	8k
L_{WA}	Intake	dB(A)	73	66	67	65	65	63	63	55
L_{WA}	Exhaust	dB(A)	76	67	68	68	69	69	65	57

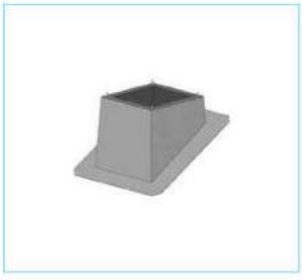


	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1180	8360	700	3,40	56	0,30
8	1080	7650	540	2,61	54	0,26
6	910	6450	330	1,60	50	0,18
4	700	4960	160	0,87	45	0,12

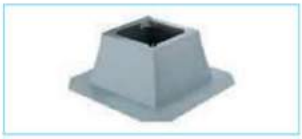
Accessories

Hinged base attenuator
Type SSD 450 Ref. no. 5288
With folding mechanism for easy revision and cleaning. Average attenuation is 15 dB. For intake attenuation. All metal parts made of galvanised sheet steel.

Sloping roof base
Type SDS upon request
For profile and tiled roofs. Made from galvanised sheet steel, with sound and heat-insulated cladding on the inside. Roof pitch up to 45°.



Flat roof base
Type FDS 450 Ref. no. 1381
With folding mechanism for easy inspection and cleaning.



Corrugated roof base
Type WDS 450 Ref. no. 1563
For EC roof fans and roof cowls on corrugated roof, slope to 25° allowed. Made from corrosion resistant glass reinforced polyester (profile no. 5).

Counterflange
Type FR 450 Ref. no. 1207
Made from galvanised sheet steel, for intake duct connection.

Flanged flexible connector
Type STS 450 Ref. no. 1224
To reduce vibration transmission in intake air ducting. Flanges made of galvanised steel.

Backdraught shutter
Type RVS 450 Ref. no. 2597
Automatic, made from galvanised sheet steel, flaps made of aluminium. To prevent cold air backdraught when the fan is not in use. For vertical air flow bottom-up position.

Motorised backdraught shutter
Type RVM 450 Ref. no. 2581
As RVS, but with spring reversing motor, mounted outside the air flow and for vertical air flow in any direction.

Universal control system
Type EUR EC Ref. no. 1347
For stepless control or adjustment of single and three phase EC-fans with an input control signal of 0–10 V DC.

Speed-potentiometer
Type PU/PA 10 see type table
For direct control or nominal value preset of EC-fans with potentiometer input.