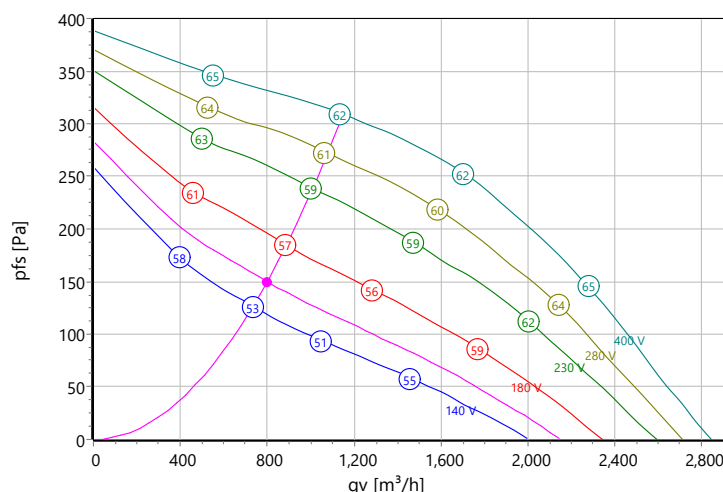


Type: **DVES 355-4 D.5DF**

Part no.: **A44-35501**



Curve:



$\rho: 1.15 \text{ kg/m}^3$

Nominal Data:

U [V]	f [Hz]	C [μ F]	P_e [kW]	I_N [A]	n_N [r/min]	t_R [°C]	k_{10} [m²s/h]	I_A / I_N	IP	m [kg]
400	50	-	0.285	0.68	1390	-25 .. +60	-	4	IP 54	33

Sound Data:

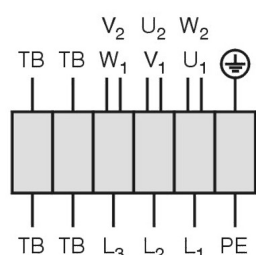
Frequency	Σ		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
$L_{wA(A,in)}$ [dB(A)]	57	-	40	48	51	51	51	46	39	$L_{pA(A,in)}$ [dB(A)]	50	40
$L_{wA(A,out)}$ [dB(A)]	54	-	38	48	48	48	46	41	33	$L_{pA(A,out)}$ [dB(A)]	47	37

Wiring Diagram:

Drehstrommotor in Δ -Schaltung mit Thermostatschalter (TB).
Drehrichtungsänderung durch Vertauschen von 2 Phasen.

Three phase motor in delta connection with thermostatic switch (TB). Changing of rotation direction by interchanging of 2 phases.

Moteur triphasé branché en triangle avec interrupteur thermostatique (TB). Changement de sens de rotation par inversion de deux phases.

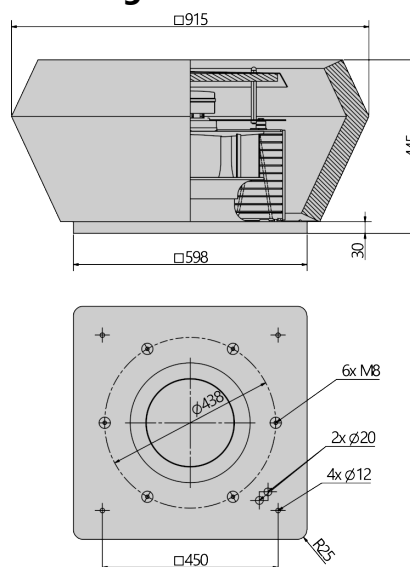


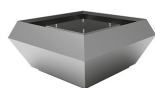
U_1 braun / brown / brun
 V_1 blau / blue / bleu
 W_1 schwarz / black / noir
 U_2 rot / red / rouge
 V_2 grau / grey / gris
 W_2 orange / orange / orange
 TB weiß / white / blanc
 PE gelb-grün / yellow-green / jaune-vert

01.006

TK3-20004

Drawing:



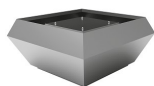


Type: **DVES 355-4 D.5DF**

Part no.: A44-35501



Part no.	Name	Quantit
A44-35501	DVES 355-4 D.5DF - Roof fan sound-insulated - 400V, 50Hz	1



Type: **DVES 355-4 D.5DF**

Part no.: A44-35501

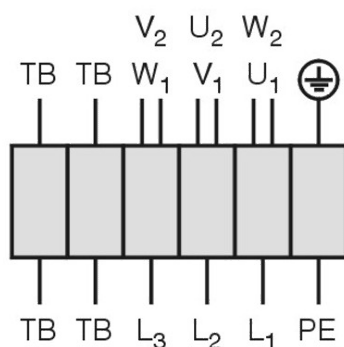


Drehstrommotor in Δ -Schaltung mit Thermostatschalter (TB).
Drehrichtungsänderung durch Vertauschen von 2 Phasen.

Three phase motor in delta connection with thermostatic switch (TB). Changing of rotation direction by interchanging of 2 phases.

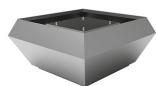
Moteur triphasé branché en triangle avec interrupteur thermostatique (TB). Changement de sens de rotation par inversion de deux phases.

TK3-20004



U ₁	braun / brown / brun
V ₁	blau / blue / bleu
W ₁	schwarz / black / noir
U ₂	rot / red / rouge
V ₂	grau / grey / gris
W ₂	orange / orange / orange
TB	weiß / white / blanc
PE	gelb-grün yellow-green jaune-vert

01.006

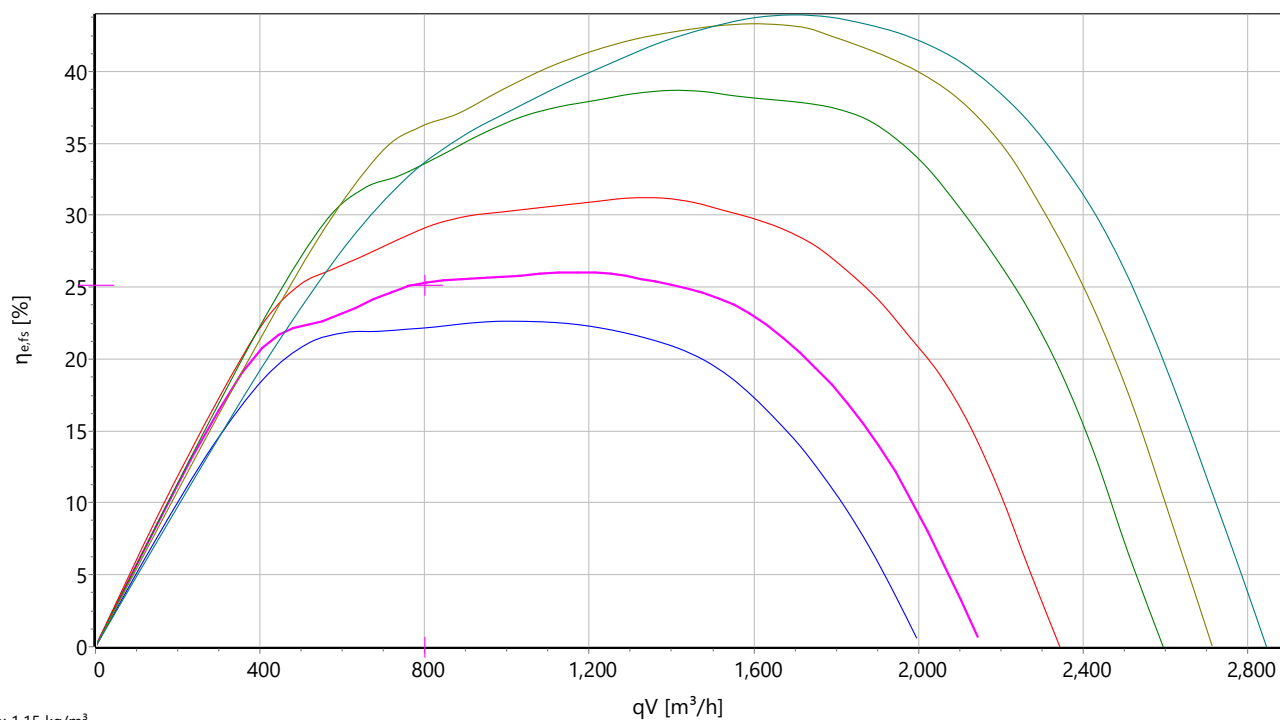


Type: **DVES 355-4 D.5DF**

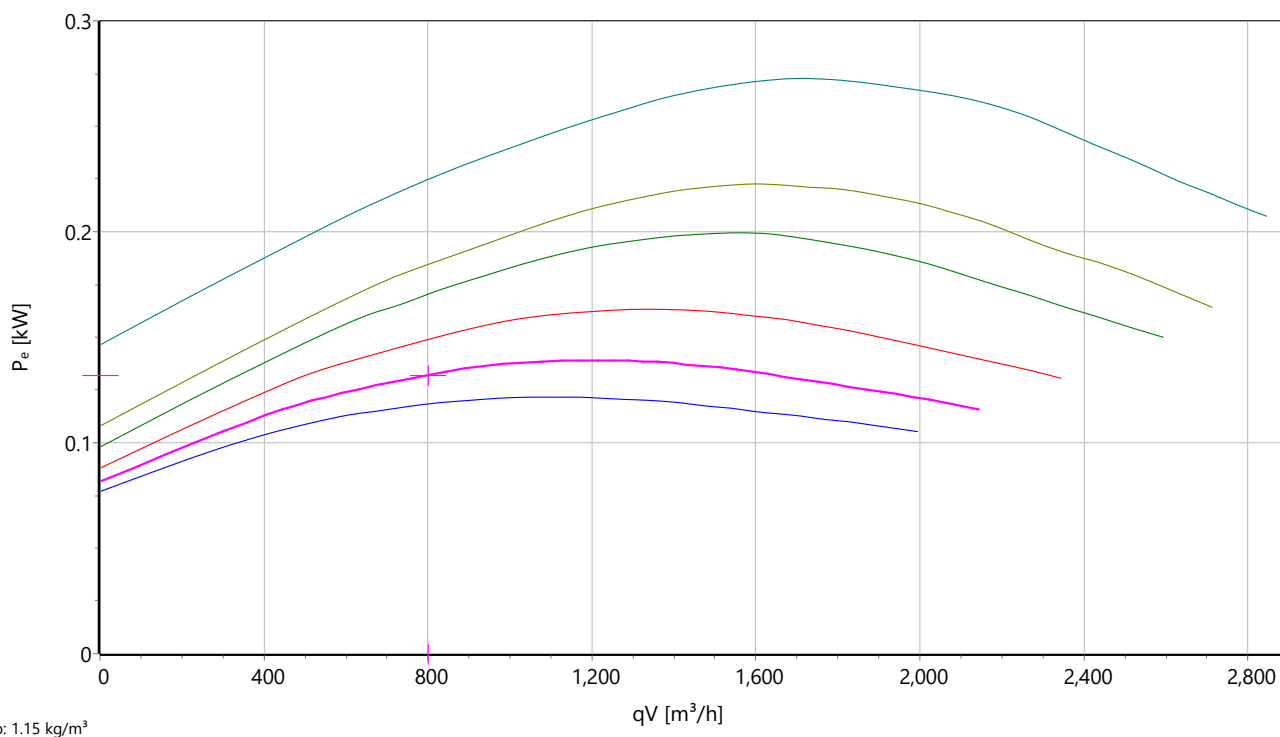
Part no.: A44-35501

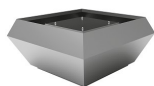


stat. Efficiency



Input power



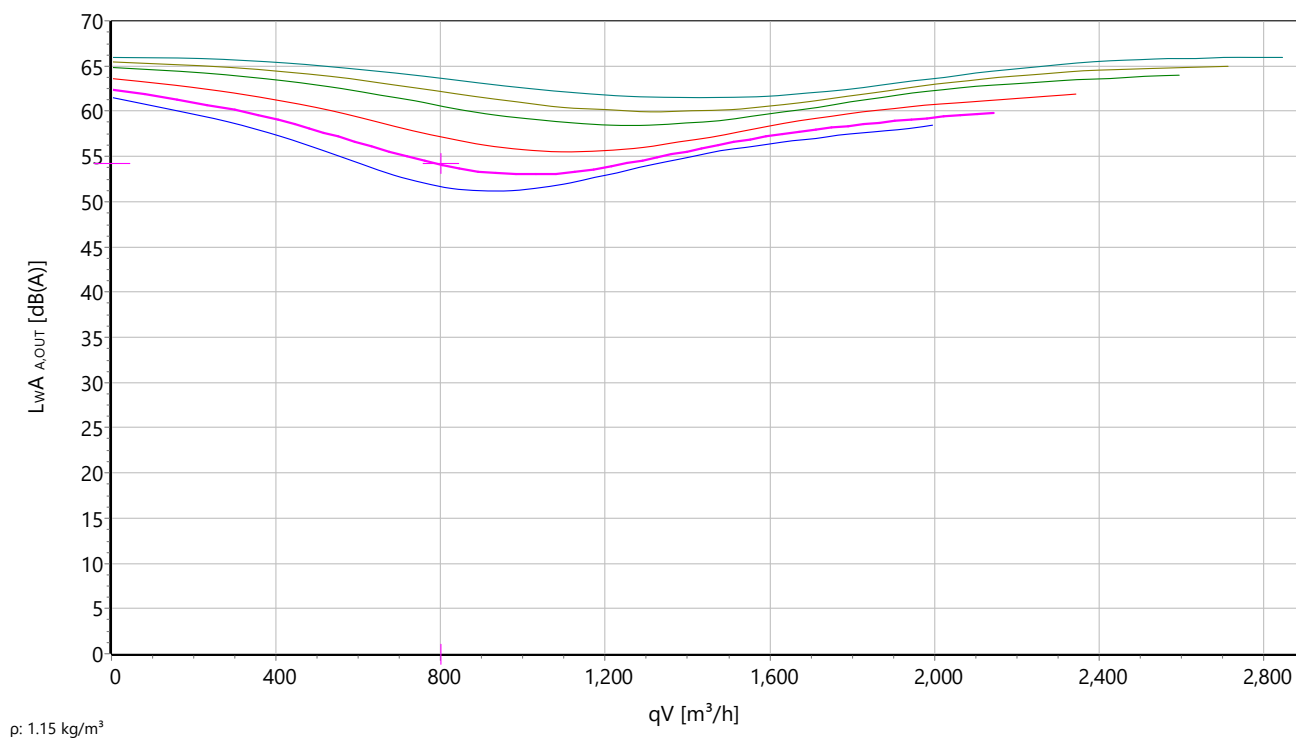


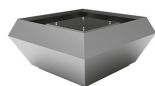
Type: **DVES 355-4 D.5DF**

Part no.: A44-35501



Sound power



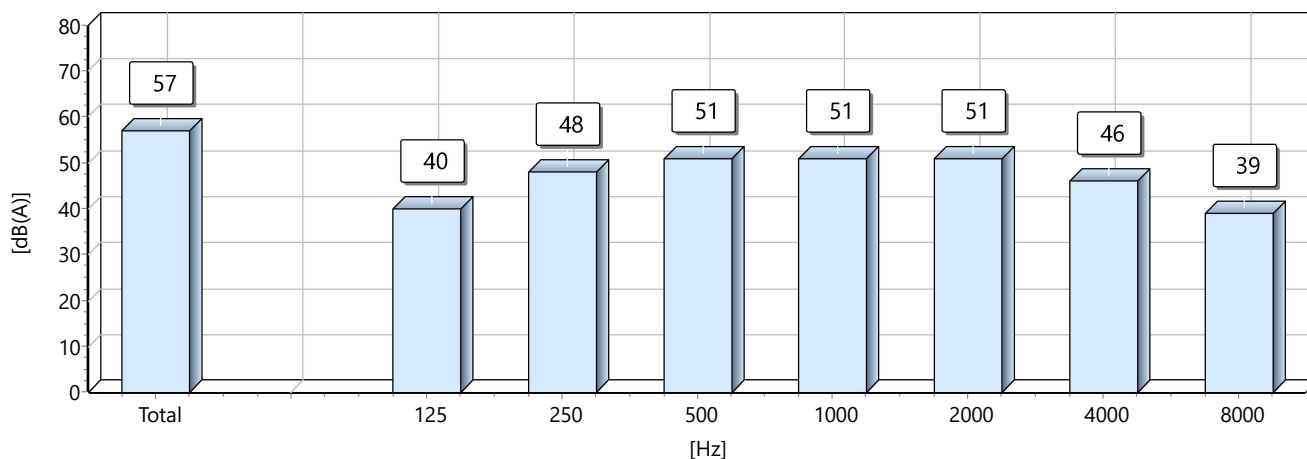


Type: **DVES 355-4 D.5DF**

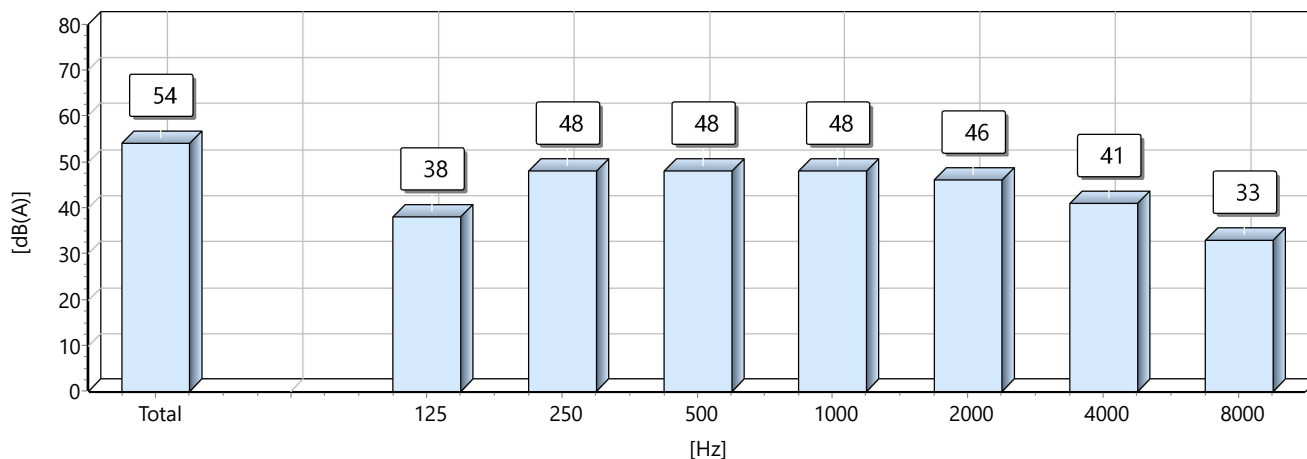
Part no.: A44-35501



LwA(in)



LwA(out)



Roof Fan

vertical outlet, sound attenuated version

Rain protection cover and square housing made of aluminium in sound absorbing version. Base frame equipped with threaded bolts for tightening accessories on suction side and a bended inlet cone, manufactured of galvanized sheet metal. Impeller of the E-Series (Revolution type range) made of black, UV-stabilized, long glass fiber reinforced polypropylene (PP) or polypropylene (PP), with seven backward-curved, profiled blades and a narrow, efficiency-optimized circumferential diffuser. Compact and versatile design. Voltage controllable AC external rotor motor. Maintenance free ball bearings, closed on both sides with long-term lubrication. Motor coated black and/or die casted aluminum. Standard configuration with cable. Motor protection is guaranteed by thermal contacts, which are inlaid into the motor windings. These contacts protect the motor from being overloaded through phase failure, too high medium temperature or locked rotor. Isolation Class F. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940-11 at least with quality level G6.3. The electrical connection is mounted on the housing by a terminal box or in the motor terminal box.

Air volume control is possible by the use of a step transformer (accessory). For using an frequency converter (max. 50Hz) the requirements of the operation manual section "Operation with frequency converters" has to be checked.

The Fan complies with the guidelines required (Machinery-, EMC- and Low Voltage Directive) to comply with installation and conformity declaration as well as CE marking.

Operating Point Data:

Airflow [qv]

800 m³/h

ext. Pressure [pfs]

150 Pa

Input power [Pe]

0.13 kW

Current [I]

0.56 A

Speed [n]

979 r/min

Sound power level [LwA (A,OUT)]

54 Lw(A)

Nominal Data:

Voltage [U]

400 V

Frequency [f]

50 Hz

Input power [P]

0.285 kW

Current [I]

0.68 A

Speed [n]

1390 r/min

Medium temperature [tR]

60 °C

Protection Mode

IP 54

Weight [m]

33 kg

Dimensions [L / W / H]
915 mm / 915 mm / 360 mm

Contact:

Rosenberg Ventilatoren GmbH
Maybachstraße 1
D - 74653 Künzelsau - Gaisbach
www.rosenberg-gmbh.com

Type:

DVES 355-4 D.5DF

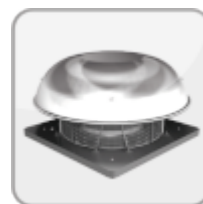
Article-No.:

A44-35501

DV.../DVE... / DH.../DHE... - Roof fans

vertical or horizontal outlet

- easy to install
- weatherproof housing
- speed controllable
- sound absorbing housing (S)



Description:

The Rosenberg roof fans are used for ventilation of department stores, supermarkets, factories, swimming pools, dining halls, warehouses, garages, farms and stables. The fans are suitable for mounting on a flat or any shaped roof.

Application areas:

Garage / Offices / Bars / Greenhouses / Skyscrapers / Hotels / Industrial buildings / Basement rooms / Playschool / Cinemas / Parking facilities / Warehouses / Nursing homes / Schools / Sports halls / Supermarkets / Workshops / Residential houses / Fitness centers / Inflatables

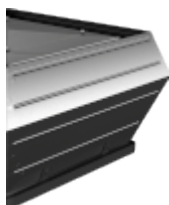
We differentiate:

DV/DVE:	vertical outlet	= for less polluted air
DH/DHE:	horizontal outlet	= for heavily contaminated air

Classification of the fan series:

NRVU = Non Residential Ventilation Units
UVU = Unidirectional Ventilation Units

Casing:



DV/DVE - Vertical outlet:

Casing made of aluminium.

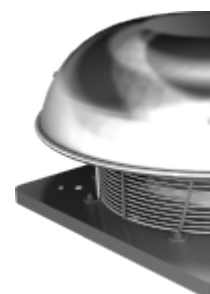
DVS/DVES - Vertical outlet:

Casing made of aluminum with integrated sound absorbing cover (50mm).

DH/DHE - Horizontal outlet:

Up to size 500: Casing made of aluminium.

From size 560: Casing made of galvanized sheet steel.



Base frame from DV/DVE and DH/DHE:

up to size 500: Base frame with bolts for tightening of inlet accessories and rectangular inlet cone made of galvanized steel.

from size 560: Base frame with bolts for tightening of inlet accessories and rectangular inlet cone made of steel, additionally plastic coated.

Coating:

Standard Coating RAL 7030 / RAL 7035 or other coating possible on request against extra charge.

Bird Protection Grill:

A coated grill RAL 9005 (black), ensures an optimal protection. Inlet grill possible on request.

Impellers:

Impellers are mounted directly to the rotor of the external rotor motor and are balanced dynamically at two levels together with the rotor according to quality level G6.3 to DIN ISO 21940-11.

DV(S) / DH

Impeller made of plastic.

DVE(S) / DHE

Impeller Evolution series with backward curved blades.

up to size 560 made of plastic

from size 630 made of aluminum

Motors:

Used are external rotor motors with IP 44/54 according to DIN EN 60034-5 with moisture protection, ball bearing mounted and with thermal contacts as motor protection.

The drive has due to an external rotor motor a space saving, compact and attractive design. The motor is fitted within the impeller, which enables the best possible cooling. For this reason a 100% variable speed control can be guaranteed. V-belts, additional tension bars and motor mounting devices are not necessary. Only well-dimensioned ball-bearings, fitted on both sides with long life time grease are used. Both ball-bearing seats are ground to superfinish in one work process to eliminate any vibrations. External rotor motors have extremely low starting currents. The windings comply to isolation class F. In addition the windings have a standard moisture impregnation.

UL-Permit:

For 60Hz Types (possible on request)

Electrical connection:

The motors are equipped with a built-on terminal box in protection class IP 54 with easy access for electrical connection after removal of the rain cover. Upon request the isolator switch (against extra charge) can be mounted on the casing of the fan.

Installation:



The roof fans are fitted with the required equipment (Flat roof socket, Base for sloping roof, Socket sound absorber and Sound absorber for sloping roof) on the roof. The pre-assembled threaded stud allows easy and effortless installation.

Air volume control:

For more information see accessories!

ERP-Reference (only inside the EU):

Please note the directives 1253/2014/EU (Lot 6) applying from 01.01.2016 for the ventilation units (ventilation fans). Keyword: „Multi-stage drive" (at least 3 fixed speeds, as well as speed 0 („off"). Suitable control and regulation devices are available as accessories.

5-speed control unit:

DH/DV...E / DHE/DVE...E: 230 Volt = RTE

DH/DV...D / DHE/DVE...D: 400 Volt = RTD

Infinitely variable control unit:

DH/DV...E / DHE/DVE...E: 230 Volt = ED / REE

DH/DV...D / DHE/DVE...D: 400 Volt = RED

DH/DV...D / DHE/DVE...D: 400 Volt = via Frequency converter

WARNING: corner frequency must correspond to the nominal frequency

2-speed control unit:

(see ERP-Reference „multi-stage-drive")

DH/DV...D / DHE/DVE...D: 400 Volt = MSD 2

Scope of delivery:

- Roof fan (DV/DVE / DH/DHE)
- Documentation

Important notes:

Air performance curves:

The air performance curves have been established using the intake test method in the test chamber according to DIN EN ISO 5801. They show pressure increase as a function of the volume flow. Performance curves were recorded in installation type A.

Noise levels:

The bordered values printed in the performance curve diagrams show the A weighted **L_{WA(out)}** sound power level (fan outlet). Determination of A-weighted **L_{WA(in)}** sound power level at fan inlet according to DIN 45 635, Part 38 or ISO 13347-3 and DIN EN ISO 3745 is calculated as follows:

$$L_{WA(in)} [dB(A)] = L_{WA(out)} [dB(A)] - 3 \text{ dB}$$

The "A" weighted sound pressure level LPA at a distance of 1 meter is calculated approximately by deducting 7 db(A) from the "A" weighted sound power level. It is important to note that the reflection and room characteristic as well as natural frequencies influence the sound pressure levels a different way. The octave sound power level LWA at octave medium frequency you can find on the table on each fan type page.

ERP-Information:

Rosenberg fans have a specific (pressure-) ratio $< 1,05$ (pressure < 5000 Pa).

Service life:

For maximum service life of Rosenberg products please beware of the maintenance hints on the manual for each product type.

Technical data presentation:

The performance data shown represent the accuracy class 3 according to DIN 24166.

Recycling and disposal:

For recycling and disposal of Rosenberg products comply with applicable locally requirements and regulations.