

ErP - Product information

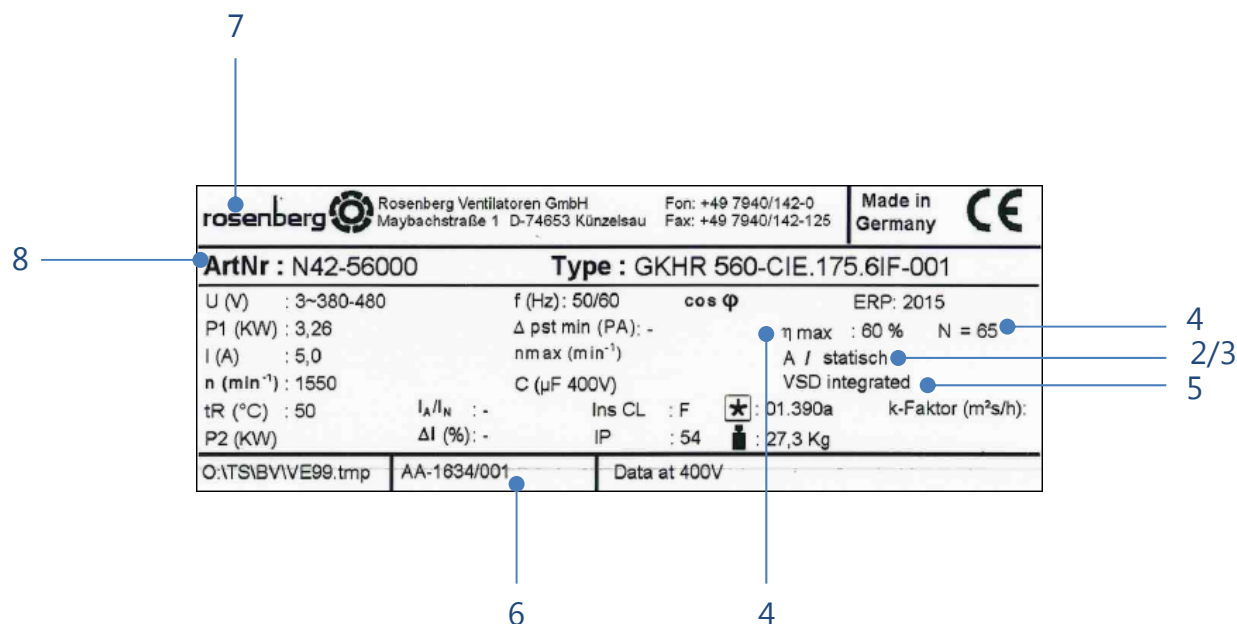


Page	Theme
2 - 5	327/2011/EU – Fan Regulation (Lot 11)
6 - 9	1253/2014/EU – Ventilation Unit Regulation (Lot 6)

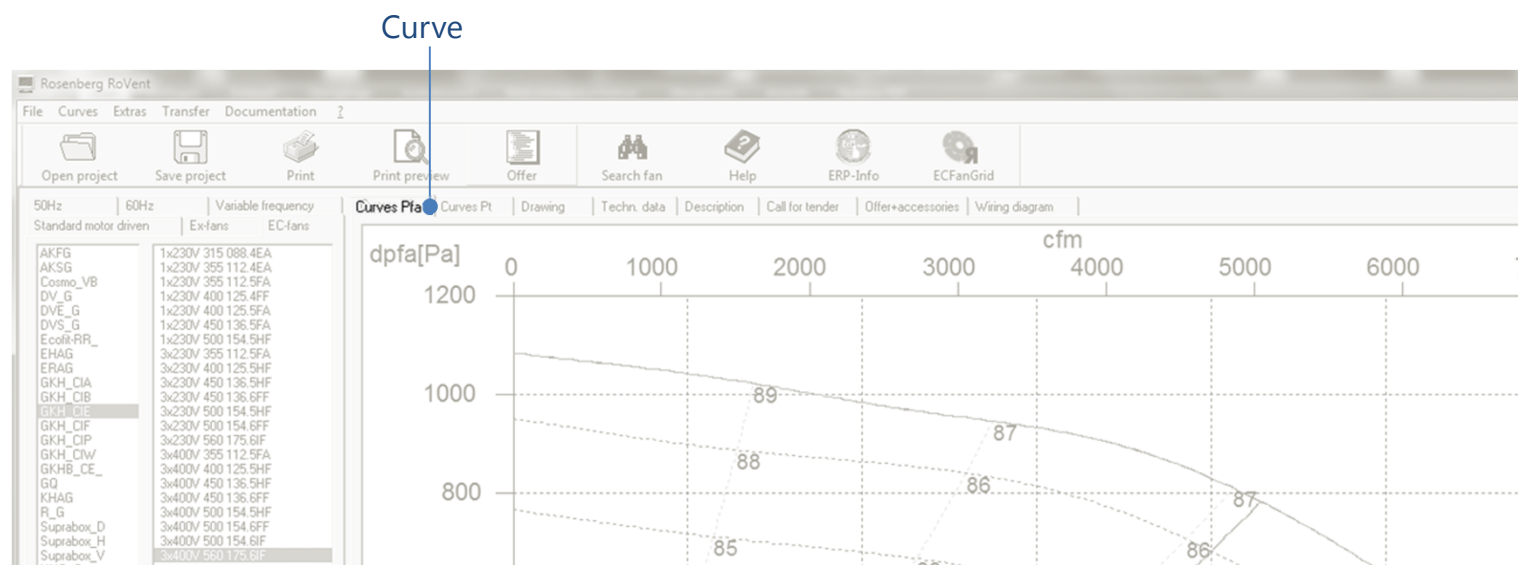
Product information according 327/2011/EU Fan Regulation (Lot 11)

No.	Requirements	Place
1	overall efficiency (η), rounded to 1 decimal place;	a, b
2	measurement category used to determine the energy efficiency (A-D);	a
3	efficiency category (static or total);	a
4	efficiency grade at optimum energy efficiency point;	a, b
5	whether the calculation of fan efficiency assumed use of a VSD and if so, whether the VSD is integrated within the fan or the VSD must be installed with the fan;	a
6	year of manufacture;	a
7	manufacturer's name or trade mark, commercial registration number and place of manufacturer;	a, b
8	product's model number;	a, b
9	the rated motor power input(s) (kW), flow rate(s) and pressure(s) at optimum energy efficiency;	b
10	rotations per minute at the optimum energy efficiency point;	b
11	the 'specific ratio';	c
12	information relevant for facilitating disassembly, recycling or disposal at end-of-life;	c
13	information relevant to minimise impact on the environment and ensure optimal life expectancy as regards installation, use and maintenance of the fan;	c
14	description of additional items used when determining the fan energy efficiency, such as ducts, that are not described in the measurement category and not supplied with the fan.	not relevant

Place a) Rating plate

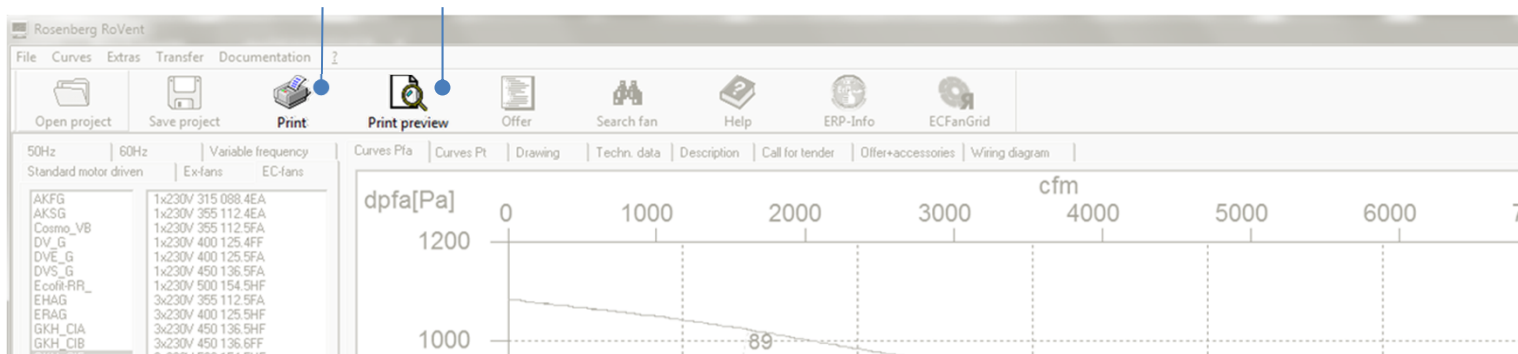


Place b) RoVent – Selection programme „Curves”



Print Curve

Print preview Curve



CONTINUATION
Place b) RoVent – Selection programme
„Curves“

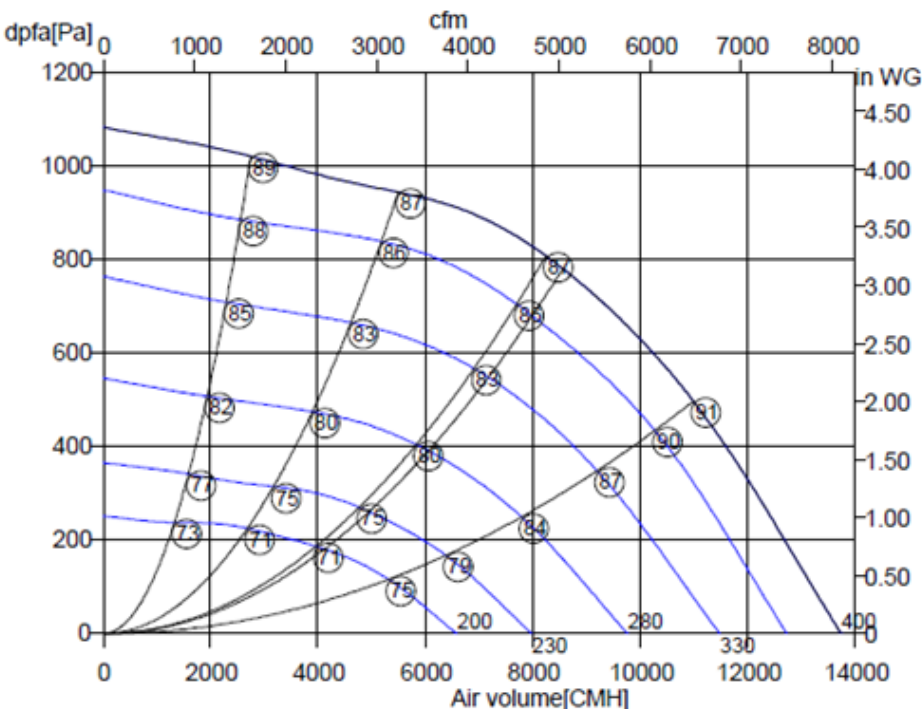
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Rosenberg Ventilatoren GmbH
Maybachstraße 1
D-74653 Künzelsau-Gaisbach

Tuesday, 23.August 2016



Free running impellers
with EC motor



GKH_560-CIE175.6IF

Art. No.	
U[V]	3~380-480
f[Hz]	50/60
P[kW]	3.26
I[A]	5.0@400V
n[1/min]	1550
C[μF]	--
tR[°C]	50
dpst[Pa]	--
Delta I[%]	--
Ia/In	--
IP	54
Weight[kG]	27.3
Wir. diag.	01.390
Overall eff [%]	60.0
Eff. Grade N	65
Power input [kW]	3.26
Air flow [m³/h]	8535
Press. [Pa]	785
Speed [1/min]	1550
Velocity [m/s]	7.26

○ Sound power level LwA8[dBA]

Data related to operating point

K-Faktor=307
SFP=1376 Ws/m³

Actual
Operating point

	100	94	84	71	58	48	100	8572
dV/dt[m³/h]	8570	7998	7182	6065	4955	4128	8570	8572
dPt[Pa]	814	708	571	407	272	189	814	
dPfa[Pa]	782	681	549	392	261	181	782	
I[A]	4.85	3.94	2.87	1.83	1.16	0.772	4.85	
P[kW]	3.28	2.68	1.93	1.19	0.691	0.430	3.28	
n[U/min]	1550	1450	1300	1100	900	750	1550	

Octave sound power level

8

1

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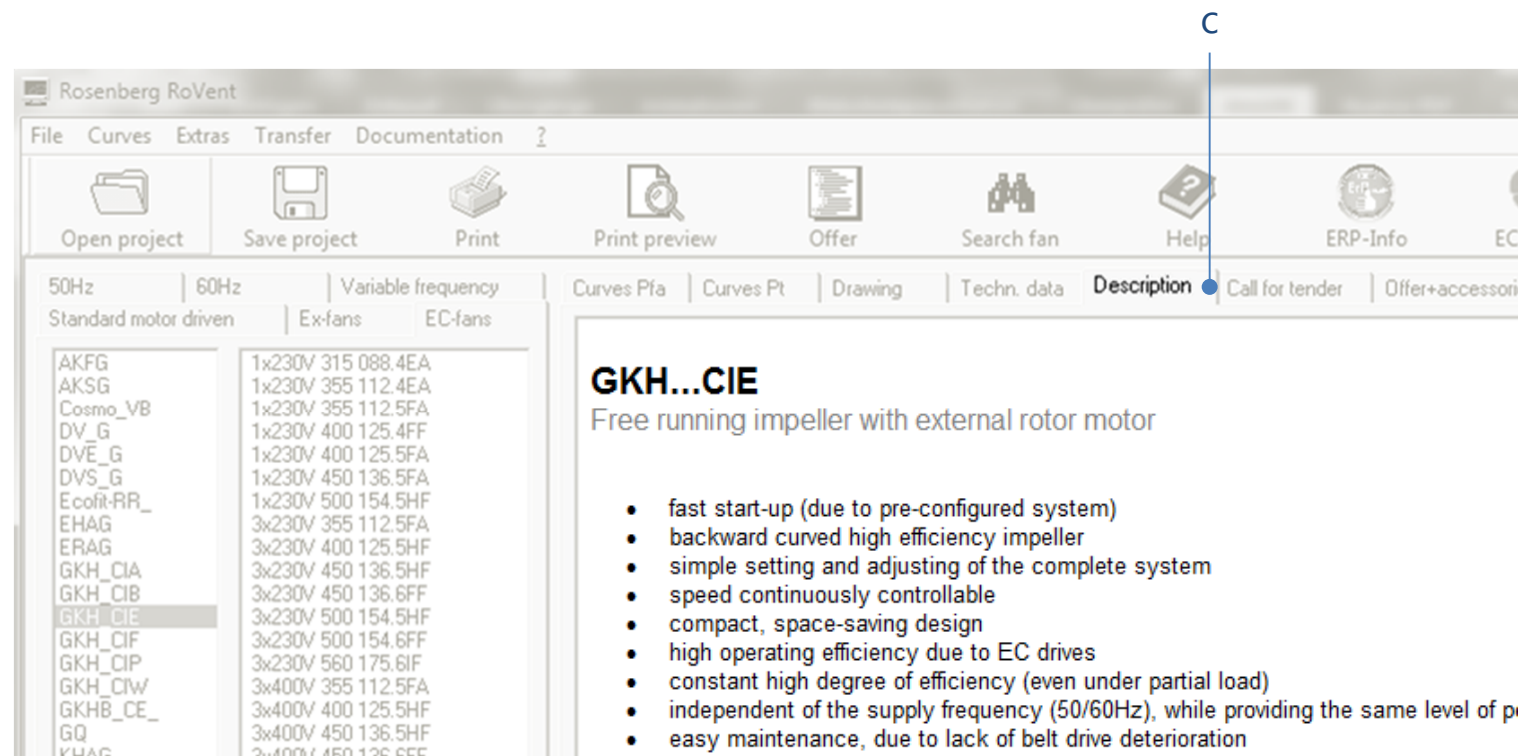
9a

9b

9c

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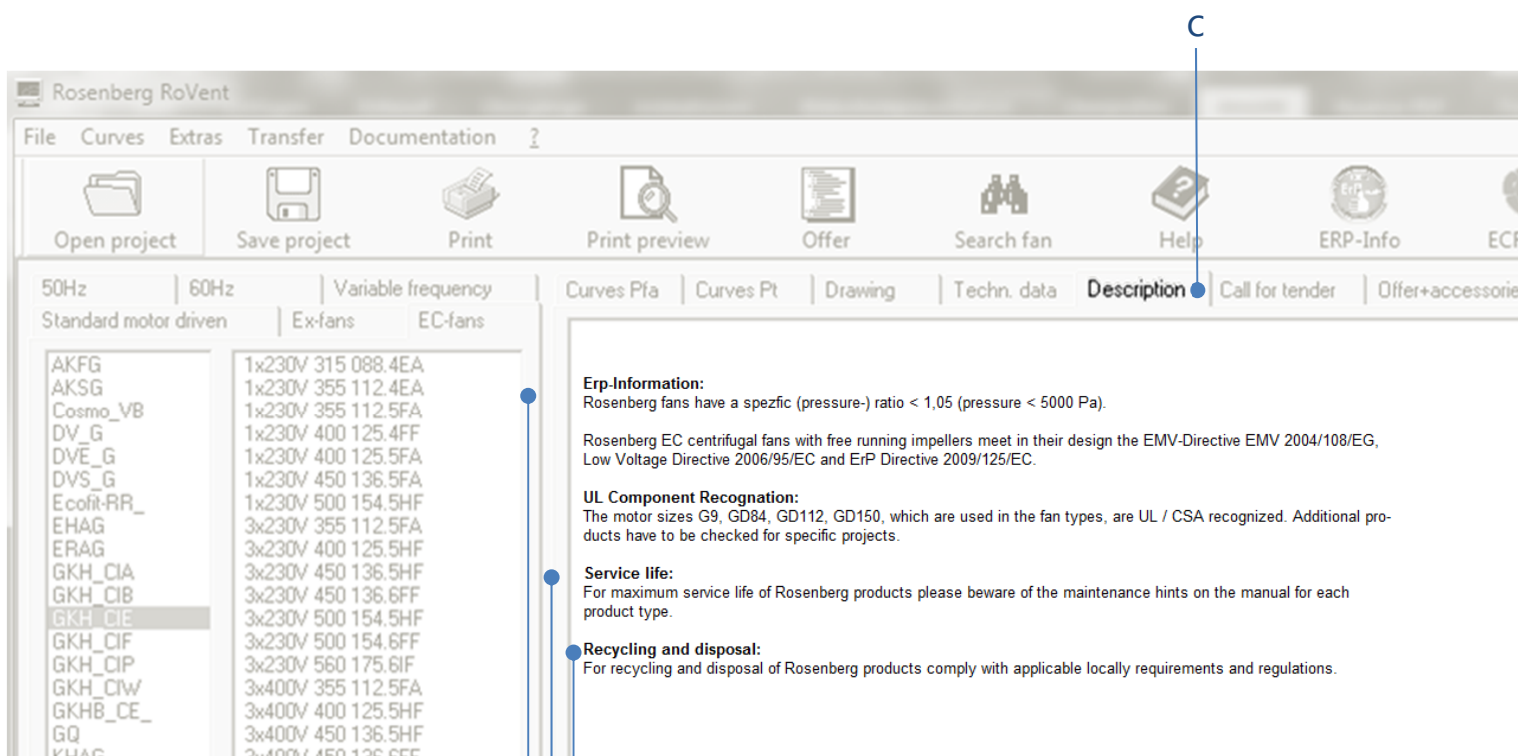
Place c) RoVent – Selection programme „Description“



The screenshot shows the Rosenberg RoVent software interface. The 'Description' tab is selected, displaying the following information:

GKH...CIE
Free running impeller with external rotor motor

- fast start-up (due to pre-configured system)
- backward curved high efficiency impeller
- simple setting and adjusting of the complete system
- speed continuously controllable
- compact, space-saving design
- high operating efficiency due to EC drives
- constant high degree of efficiency (even under partial load)
- independent of the supply frequency (50/60Hz), while providing the same level of performance
- easy maintenance, due to lack of belt drive deterioration



The screenshot shows the Rosenberg RoVent software interface. The 'Description' tab is selected, displaying the following information:

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

Rosenberg EC centrifugal fans with free running impellers meet in their design the EMV-Directive EMV 2004/108/EG, Low Voltage Directive 2006/95/EC and ErP Directive 2009/125/EC.

UL Component Recognition:
The motor sizes G9, GD84, GD112, GD150, which are used in the fan types, are UL / CSA recognized. Additional products have to be checked for specific projects.

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

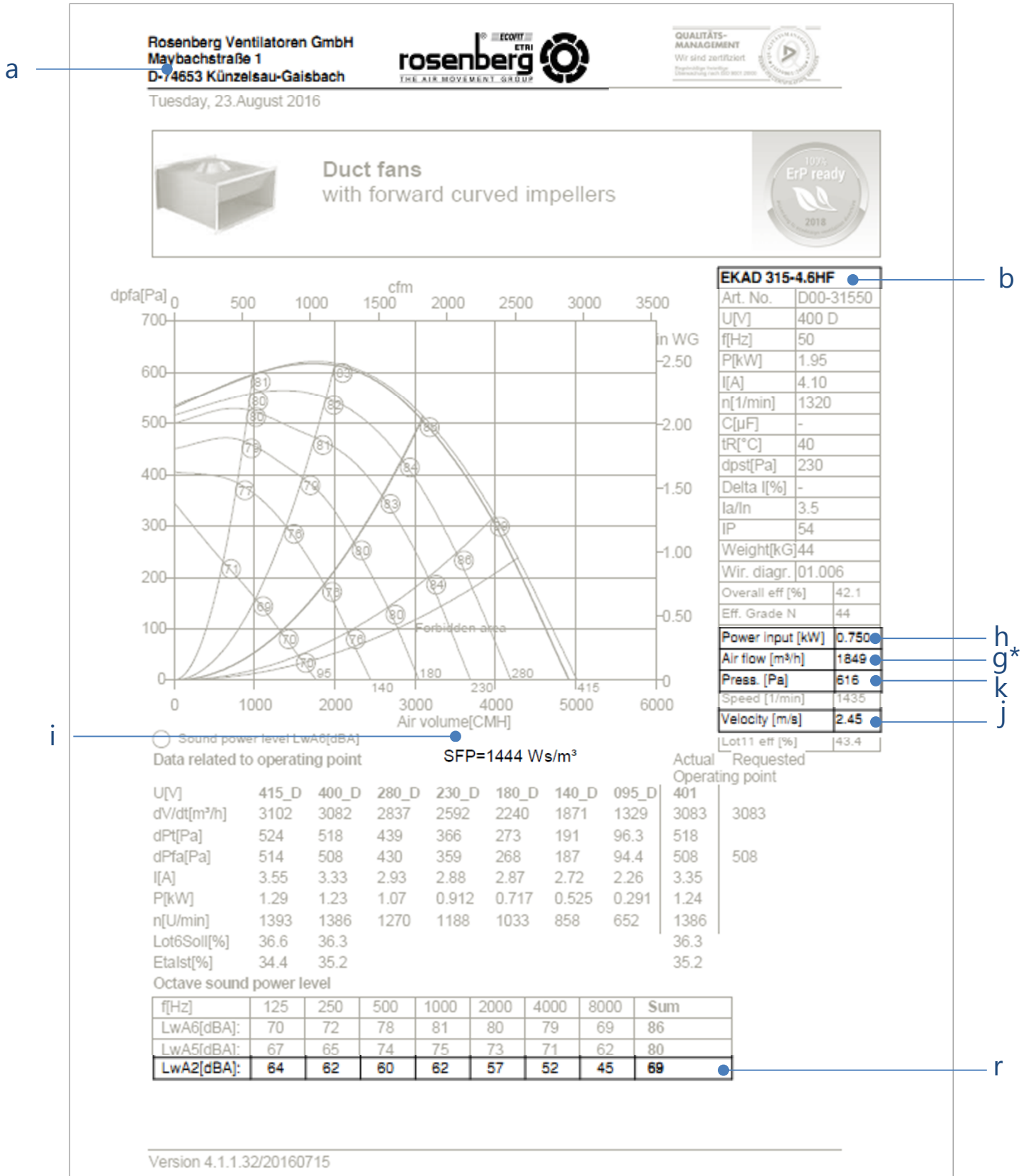
Recycling and disposal:
For recycling and disposal of Rosenberg products comply with applicable locally requirements and regulations.

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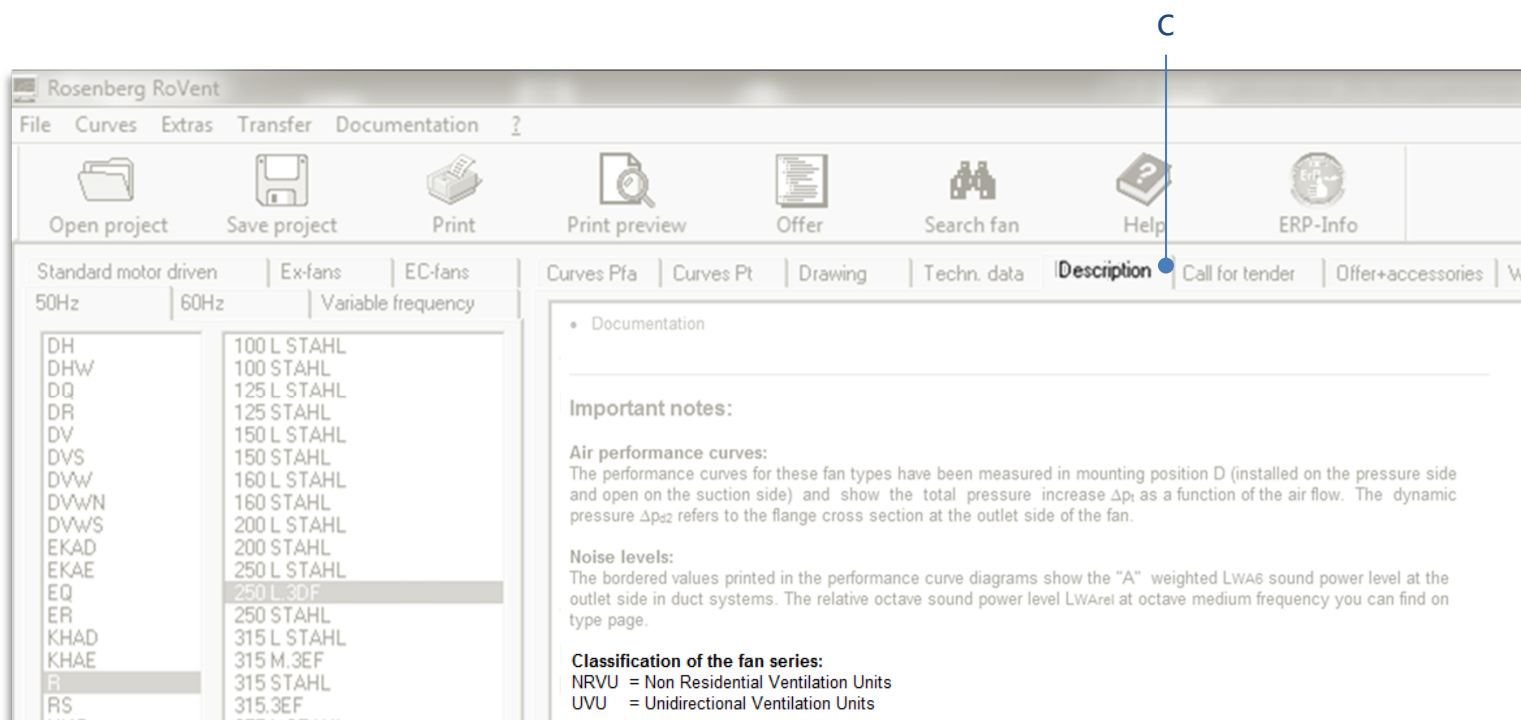
Product information requirements according 1253/2014/EU Ventilation Unit Regulation (Lot 6)

No.	Requirements	Place
a	manufacturer's name or trade mark;	1
b	manufacturer's model identifier, i.e. the code, usually alphanumeric, used to distinguish a specific non-residential ventilation unit model from other models with the same trade mark or supplier's name;	1
c	declared typology in accordance with Article 2 (RVU or NRVU, UVU or BVU);	2
d	type of drive installed or intended to be installed (multi-speed drive or variable speed drive);	2
e	type of HRS (run-around, other, none);	none
f	thermal efficiency of heat recovery (in % or 'not applicable' if the product has no heat recovery system);	not applicable
g	nominal NRVU flow rate in m ³ /s;	1 (* / 3600)
h	effective electric power input (kW);	1
i	SFP _{int} in W/(m ³ /s);	1
j	face velocity in m/s at design flow rate;	1
k	nominal external pressure ($\Delta p_{s, ext}$) in Pa;	1
l	internal pressure drop of ventilation components ($\Delta p_{s, int}$) in Pa;	not applicable
m	optional: internal pressure drop of non-ventilation components ($\Delta p_{s, add}$) in Pa;	not applicable
n	static efficiency of fans used in accordance with Regulation (EU) No 327/2011;	3
o	declared maximum external leakage rate (%) of the casing of ventilation units; and declared maximum internal leakage rate (%) of bidirectional ventilation units or carry over (for regenerative heat exchangers only); both measured or calculated according to the pressurisation test method or tracer gas test method at declared system pressure;	not applicable
p	energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption);	not applicable
q	description of visual filter warning for NRVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit;	not applicable
r	in the case of NRVUs specified for use indoors, the casing sound power level (LWA), rounded to the nearest integer;	1
s	internet address for disassembly instructions as referred to in point 3. 3. 3. The manufacturer's free access website shall make available detailed instructions, inter alia, identifying the required tools for the manual pre-/dis-assembly of permanent magnet motors, and of electronics parts (printed wiring boards/ printed circuit boards and displays > 10 g or > 10 cm ²), batteries and larger plastic parts (> 100 g) for the purpose of efficient materials recycling, except for models of which less than 5 units per year are produced. www.rosenberg-gmbh.com	

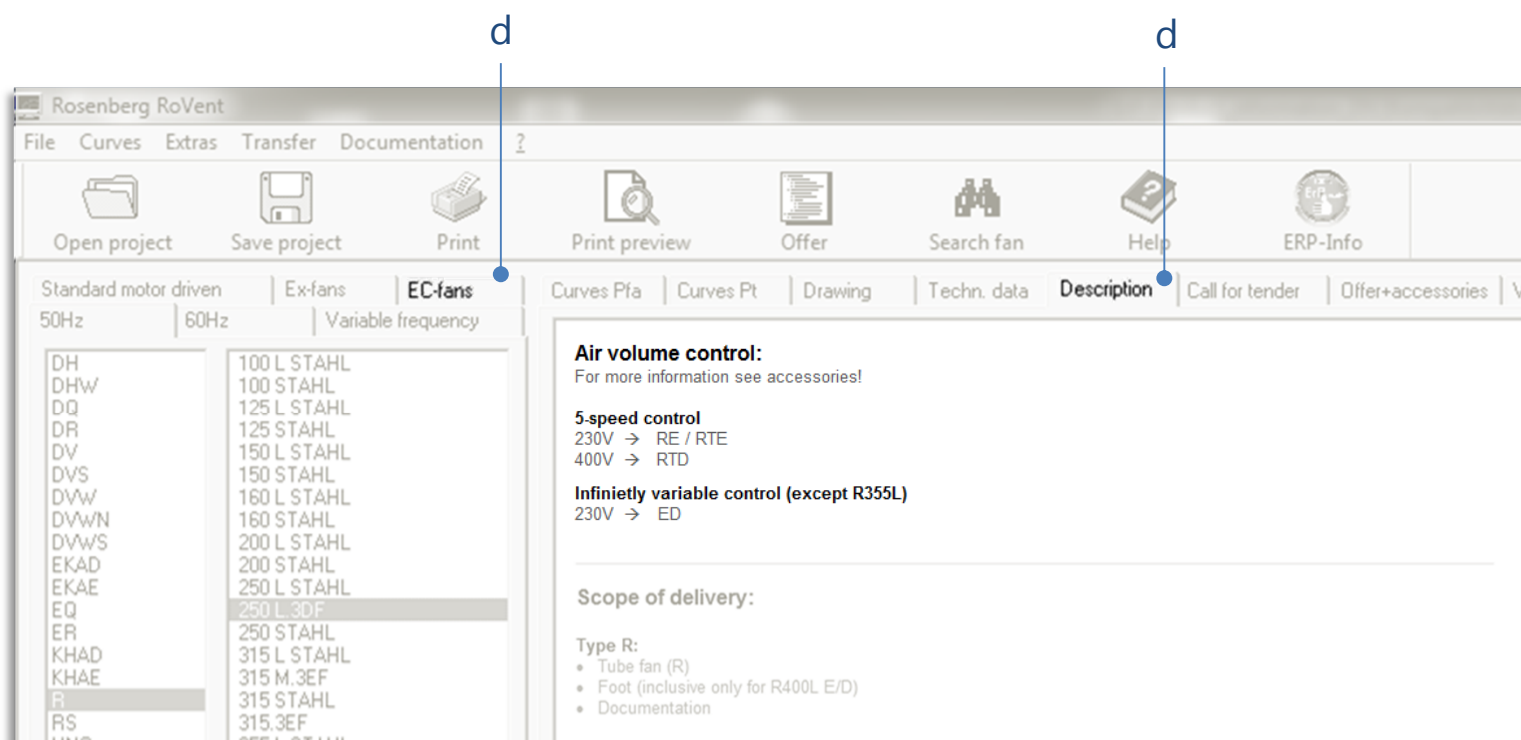
Place 1) RoVent – Selection programme „Curves“



Place 2) RoVent – Selection programme „Description“



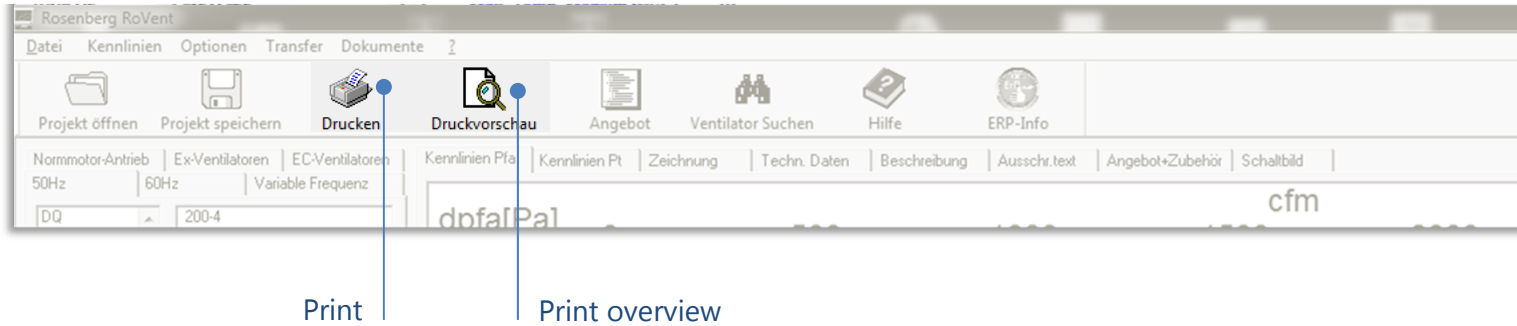
- c) Rosenberg fans are declared in general as **Non Residential Ventilation units (NRVU)** and **Unidirectional Ventilation Units (UVU)**.



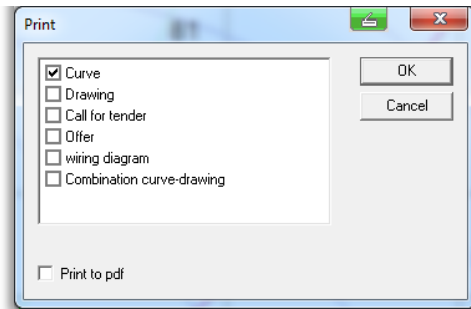
- d) The AC- fan types are fitted with motors suited for **multi-speed drive**. Suited control devices are available. EC-types (folder „EC-fans“) are fitted with **variable speed drives** in general.

Place 3) RoVent – Selection programme „Datasheet of the fan“

Step 1: Technical Data print and print overview



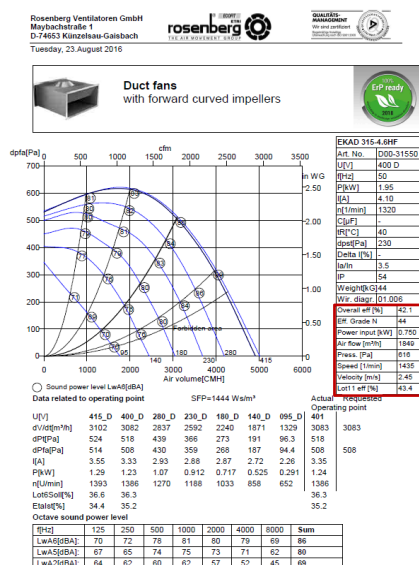
Step 2: Select data sheet



Please select the Curve in the dialogbox „Print“ and press the OK button.

For the PDF data sheet you must be select the „Print to pdf“.

Step 3: View the ErP data



ErP data of the fan (Example EKAD)

Overall eff [%]	42.1
Eff. Grade N	44
Power input [kW]	0.750
Air flow [m³/h]	1849
Press. [Pa]	616
Speed [1/min]	1435
Velocity [m/s]	2.45
Lot11 eff [%]	43.4

n