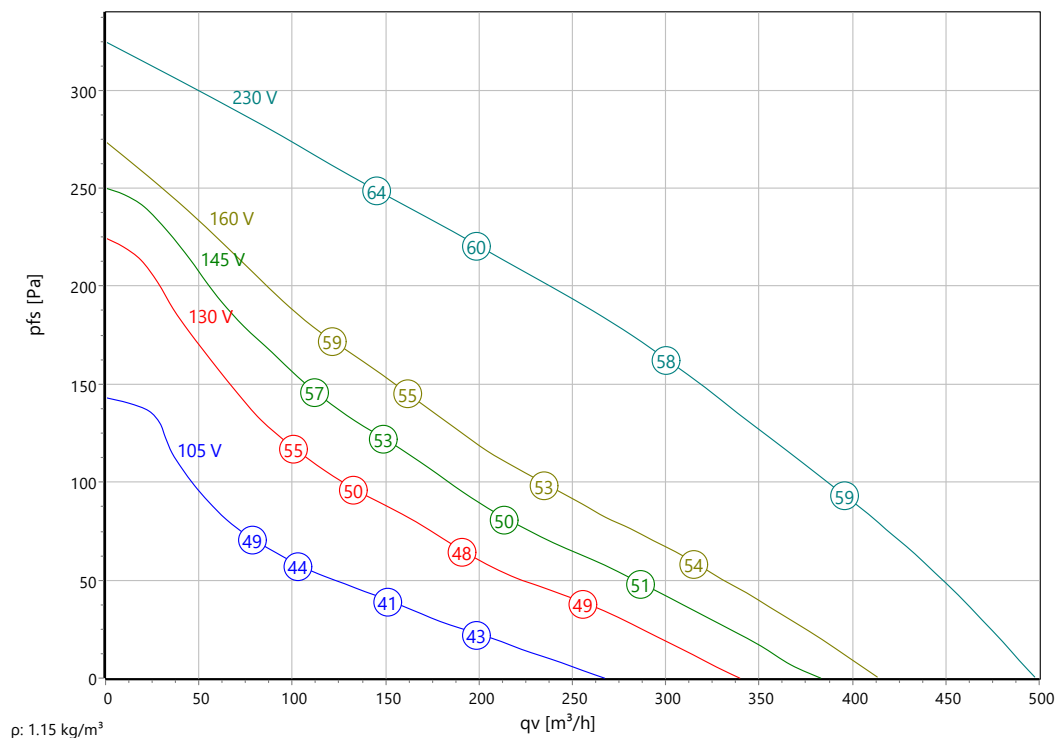




Type: **RS 160 .3BF**
Casing made of plastic
Part no.: F00-16055



Curve:



ErP-Data:

ErP 2018 (EU) Nr. 1253/2014 (Lot6)		
q _v	287	m³/h
p _{fs}	172	Pa
η _{fs}	25.5	%
P _e	0.054	kW
n	2333	r/min
N	44	N
v	4	m/s
η _{fs} Lot11	0	%

Nominal Data:

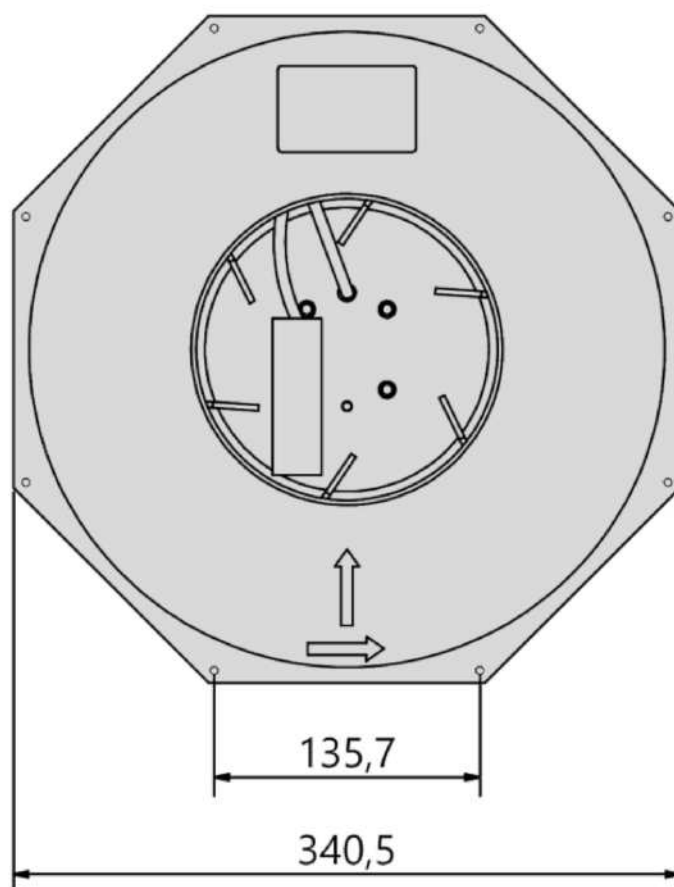
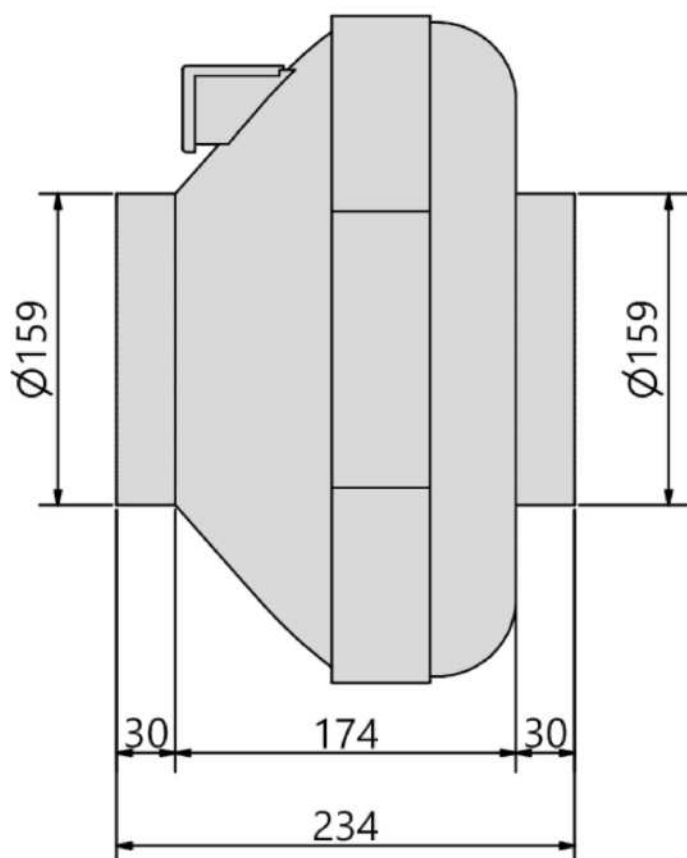
U [V]	f [Hz]	C [μF]	P _e [kW]	I _N [A]	n _N [r/min]	t _R [°C]	k ₁₀ [m²s/h]	I _A / I _N	IP	m [kg]
1~230	50	2	0.053	0.24	2380	-20 .. +70	-	1.5	IP 44	2.7

Sound Data:

Frequency	Σ	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
LwA(D,in) [dB(A)]	1	-42	-23	-9	-7	-5	-5	-6	-13	LpA(D,in) [dB(A)]	-6	-16
LwA(D,out) [dB(A)]		-38	-20	-9	-9	-7	-5	-7	-17	LpA(D,out) [dB(A)]	-7	-17
LwA(D,cas) [dB(A)]	-18	-42	-27	-25	-26	-24	-25	-31	-38	LpA(D,cas) [dB(A)]	-25	-35



Type: **RS 160 .3BF**
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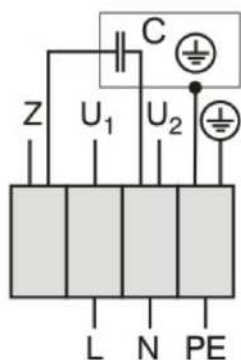


Einphasenwechselstrommotor mit Betriebskondensator und Thermostatschalter.
Thermostatschalter intern mit der Wicklung in Reihe geschaltet.

Single phase A.C. motor with operating capacitor and thermostatic switch.
Thermostatic switch internal wired in series with windings.

Moteur monophasé avec condensateur permanent et protecteur thermique
interne branché en série avec le bobinage.

TK3-20005 v2



U₁ blau / blue / bleu
 U₂ schwarz / black / noir
 Z braun / brown / brun
 PE gelb-grün
 yellow-green
 jaun-vert

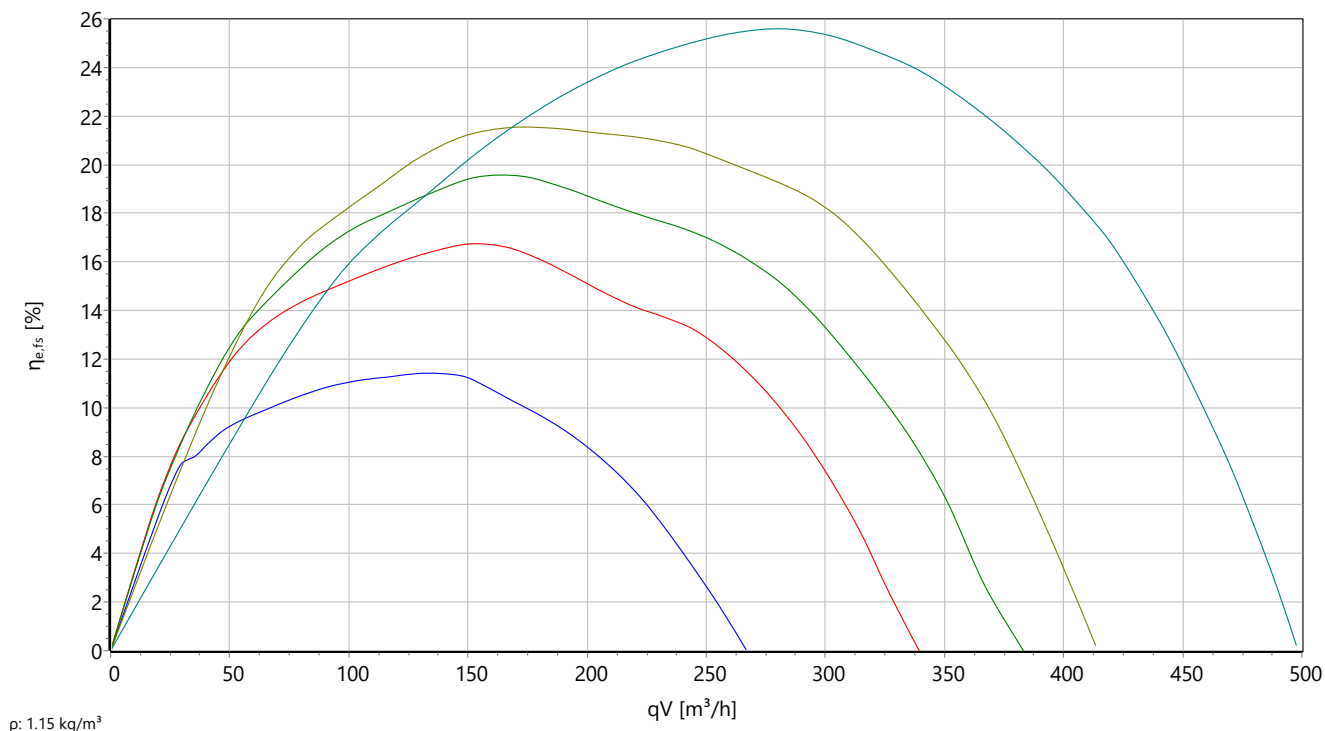
01.009



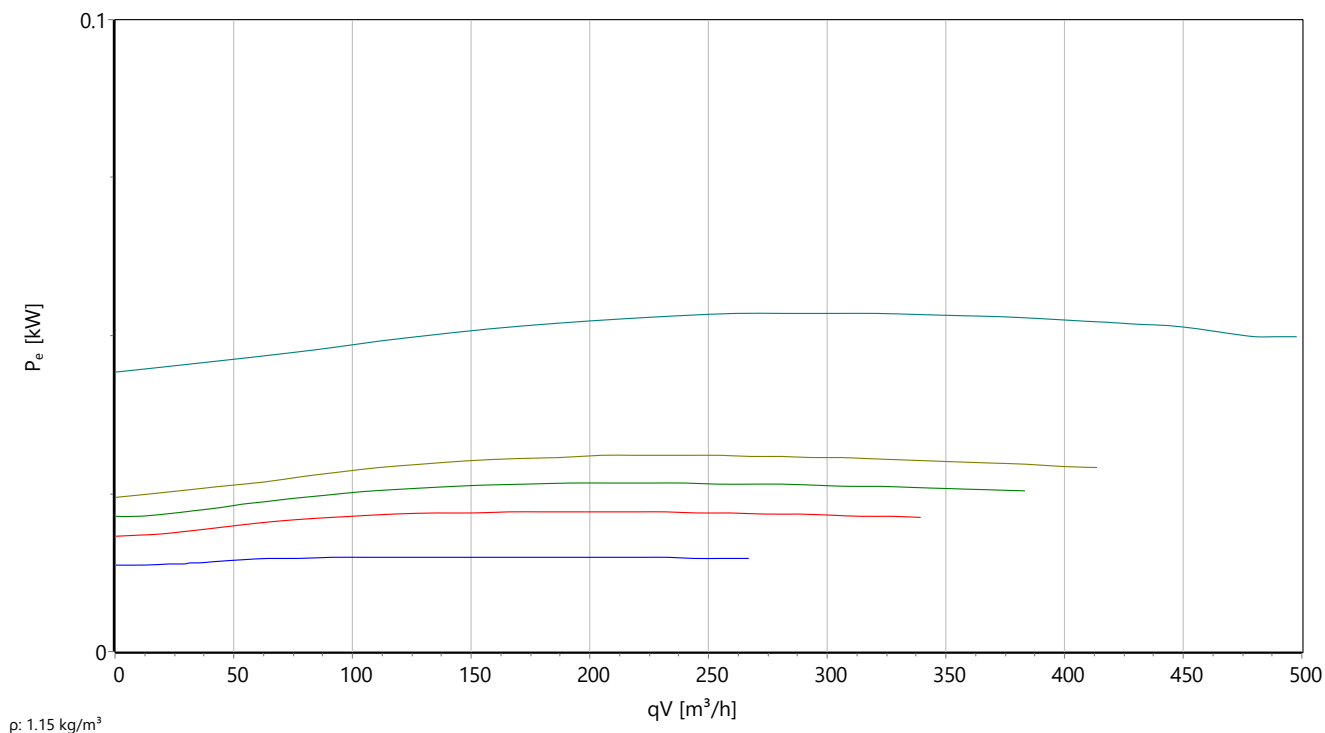
Type: **RS 160 .3BF**
 Casing made of plastic
 Part no.: F00-16055



stat. Efficiency



Input power

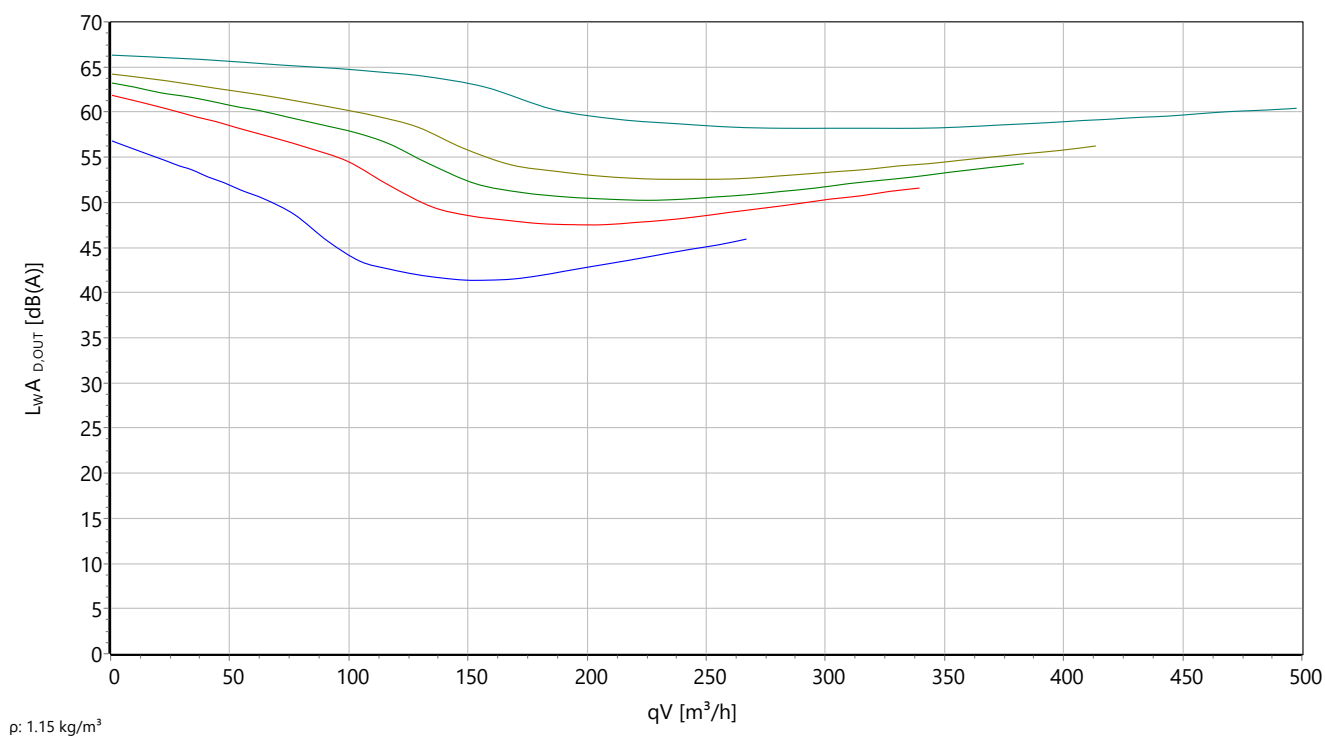




Type: **RS 160 .3BF**
 Casing made of plastic
 Part no.: F00-16055



Sound power



Tube fan

with casing made of plastic

The casing is made from shock-proof, recyclable plastic (PA 6.6 + GF) with integrated terminal box and the possibility to mount a bracket. Inlet and outlet side with duct connection for standard round ducts. Suitable for installation in any position. Impeller made of Polypropylene (PP) UL94 V-0 with backward curved blades. Direct-driven single-phase alternating current motor and three-phase motor with class F insulation system. For single-phase motors, motor protection is provided by thermal contacts built into the winding and connected in series. Three-phase motors have no internal protection system and must be connected to an external protection system. When using an electronic voltage control unit or a frequency converter, a sine filter must be used. Maintenance-free ball bearings, closed on both sides, with long-term lubrication. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940-11 with quality level G2.5. Air volume control: possible by the use of an electronic speed controller or a step transformer (accessory).

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.

Nominal Data:

Voltage [U]

1~230 V

Frequency [f]

50 Hz

Input power [P]

0.053 kW

Current [I]

0.24 A

Speed [n]

2380 r/min

Medium temperature [tR]

70 °C

Protection Mode

IP 44

Weight [m]

2.7 kg

Dimensions [L / W / H]

234 mm / 341 mm / 341 mm

Contact:

Rosenberg Ventilatoren GmbH

Maybachstraße 1

D - 74653 Künzelsau - Gaisbach

www.rosenberg-gmbh.com

Type:

RS 160 .3BF

Article-No.:

F00-16055

R... / RS... - Tube Fans

Construction of steel and plastic

- easy installation in any position
- easy electrical connection via terminal box
- motor protection by thermal contacts



Description:

Tube fans represent a technically perfect solution, uniting the advantages of axial fans, straight airflow and easy installation, with high pressure stability, low noise level and high efficiency of the radial fans.

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

The R... / RS... series is characterized by high airflows at medium pressures. An extensive accessory program for tube mounting completes the product portfolio ideally.

Classification of the fan series:

NRVU = Non Residential Ventilation Units

UVU = Unidirectional Ventilation Units

Casing:



Steel type (R)

The casings are manufactured of galvanized sheet steel

Plastic type (RS)

The casings are equipped with an attractive and hardly inflammable plastic (PA6.6+GF) casing with integrated terminal box and guide vane.



Advantages of the plastic types compared to sheet steel types:

- lower noise level
- completely corrosion resistant
- easy installation with mounting brackets
- higher pressure and better efficiency through guide vane

Impellers:

The impellers are balanced together with the external rotor motors at two levels according to quality level G2.5/G6.3 to

DIN ISO 21940-11.

Type R:

- 100-355 = backward curved centrifugal impeller made of plastic
- 400 = backward curved centrifugal impeller made of aluminum
- 250L-315M = backward curved centrifugal impeller made of plastic

Type RS:

- 100-250L = backward curved centrifugal impeller made of plastic
- ab 315 = backward curved centrifugal impeller made of galvanized sheet steel

Motor and motor protection:

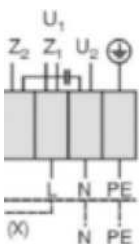
All Rosenberg fans are equipped with direct driven external rotor motors. All our fans have motor protection through thermal contacts in the motor windings as standard. The motors apply to protection class IP44/IP54.

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 -dimensions ball-bearings, fitted on both sides and life time greased are used. Both ball -bearing seats are ground to high precision 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:



Series R:

The electrical connection is mounted on the housing by a terminal box with IP54 protection.

Series RS:

The electrical connection is mounted on the housing by a terminal box with IP44 protection.

Installation:



Rigid folded spiral-seam ducts (Spiro), flexible aluminium or plastic ducts with standardized diameter can be used.

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

230V = RE / RTE

Infinietly variable control (except R355L)

230V = ED

Scope of delivery:

Type R:

- Tube fan (R)
- Documentation

Type RS:

- Tube fan (RS)
- Mounting bracket
- 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 D.

Sound levels:

The tests and their performance curves were conducted according to DIN 45635 part 38 or. ISO 133347 -3 and DIN EN ISO 3744/ 3745 in accordance with the envelope surface method.

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 2 according to DIN 24166.

Recycling and disposal:

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