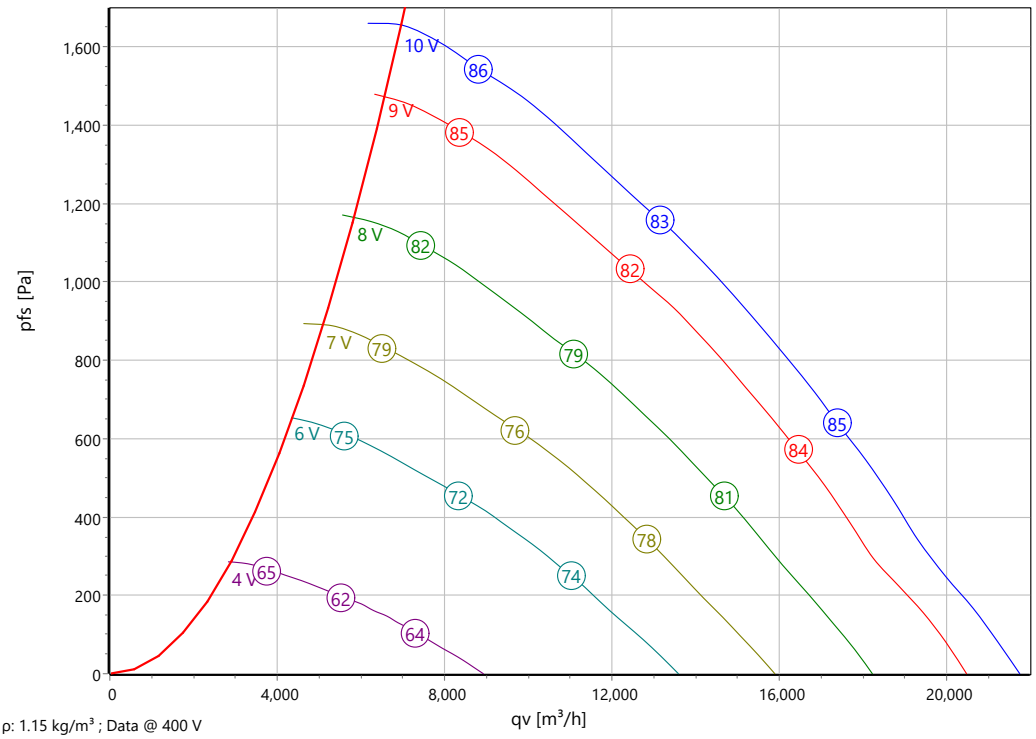
Type: **GKHM 560-CII.183.6NA IE Gen3+**
Module Classic
Part no.: N88-56700

Curve:



ρ: 1.15 kg/m³ ; Data @ 400 V

ErP-Data:

ErP 2026 (EU) 2024/1834 (Lot11, BC)		
q_v	13598	m³/h
p_{fs}	1113	Pa
η_{fs}	70.1	%
P_{ed}	6.31	kW
n	1960	r/min
N	72	N
v	10.5	m/s

Nominal Data:

U [V]	f [Hz]	Data @ [V]	P_{ed} [kW]	I_N [A]	n_N [r/min]	t_R [°C]	k_{10} [m²s/h]	Eff.-Rating	IP	m [kg]
3~380-480	50/60	400	6.4	9.8	1920	-25 .. +40	283	IE5	IP 54	64
		460		8.6						

Sound Data:

Frequency	Σ	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
LwA(A,in) [dB(A)]		-34	-12	-9	-10	-6	-6	-9	-11
LwA(A,out) [dB(A)]	6	-26	-6	-2	0	-1	-2	-5	-7

Distances	1 m	4 m
LpA(A,in) [dB(A)]	-7	-17
LpA(A,out) [dB(A)]	-1	-11

Over 7,2V setpoint complies with IEC 60034-30-2 minimum requirements for IE4.ErP-Data @ Modul Classic
Attention: Start-up times up to ~ 20 - 60 sec. depending on motor-impeller combination, motor load and number of operation.
Please note during project planning (e.g. for condenser units in refrigeration circuits)!

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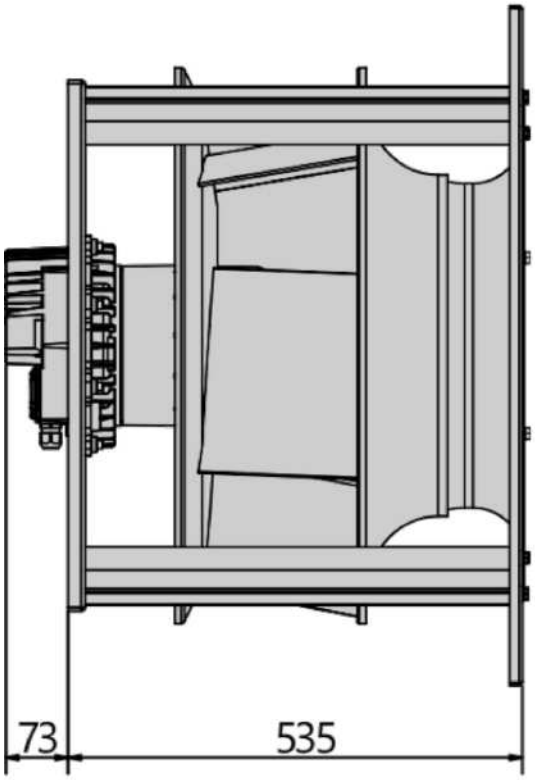

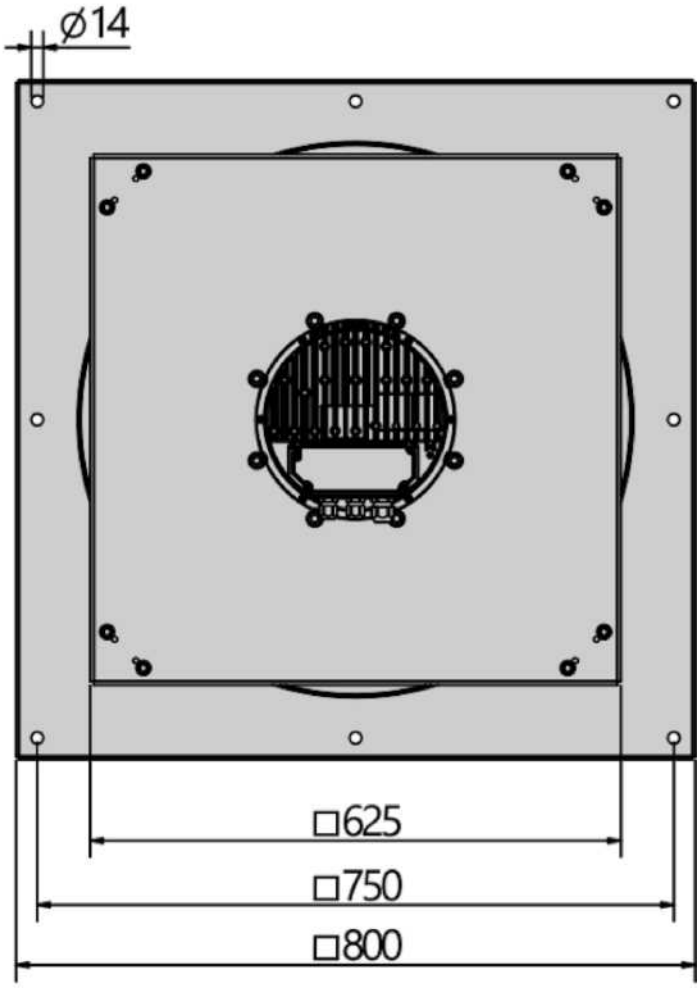

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Module Classic
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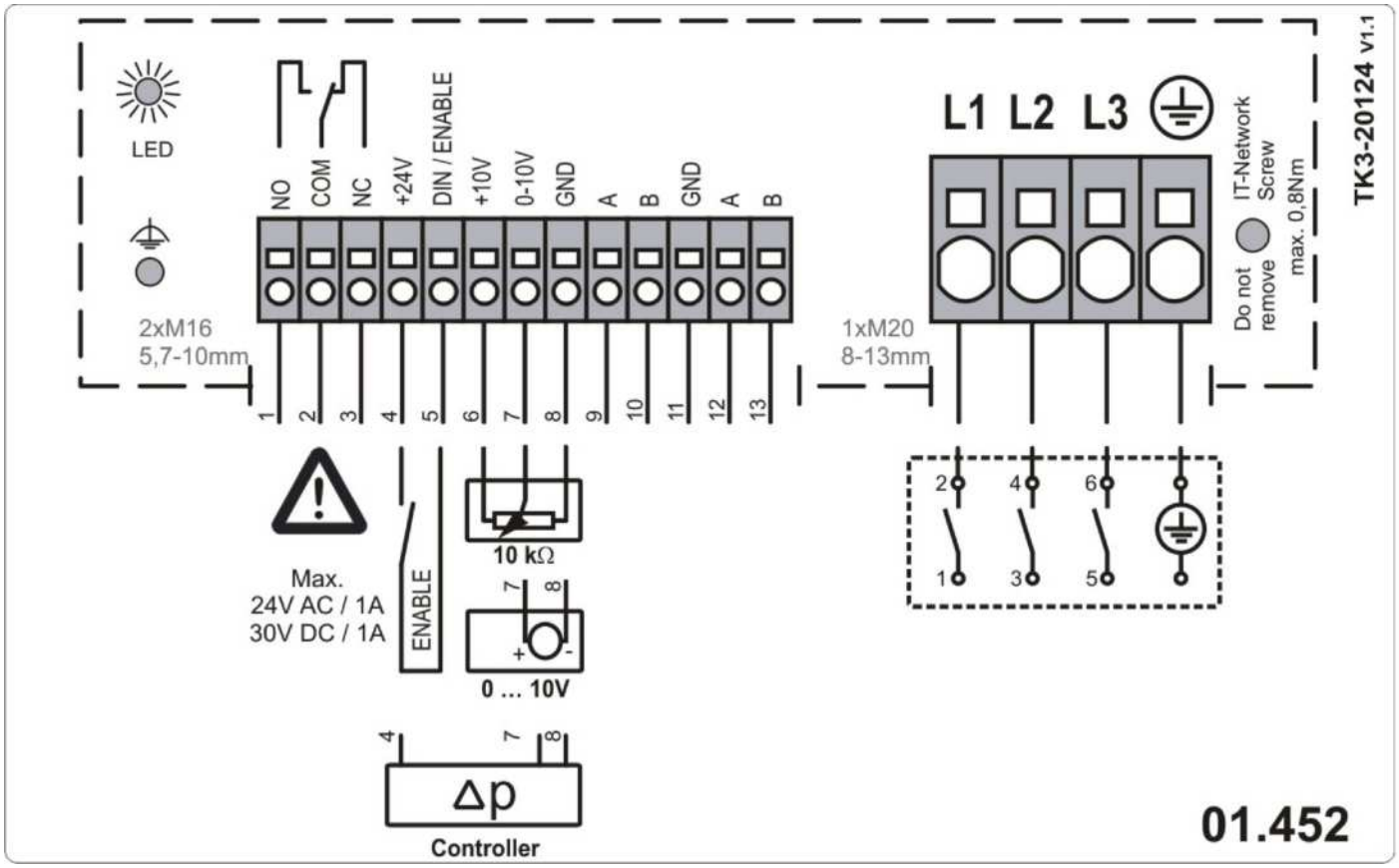

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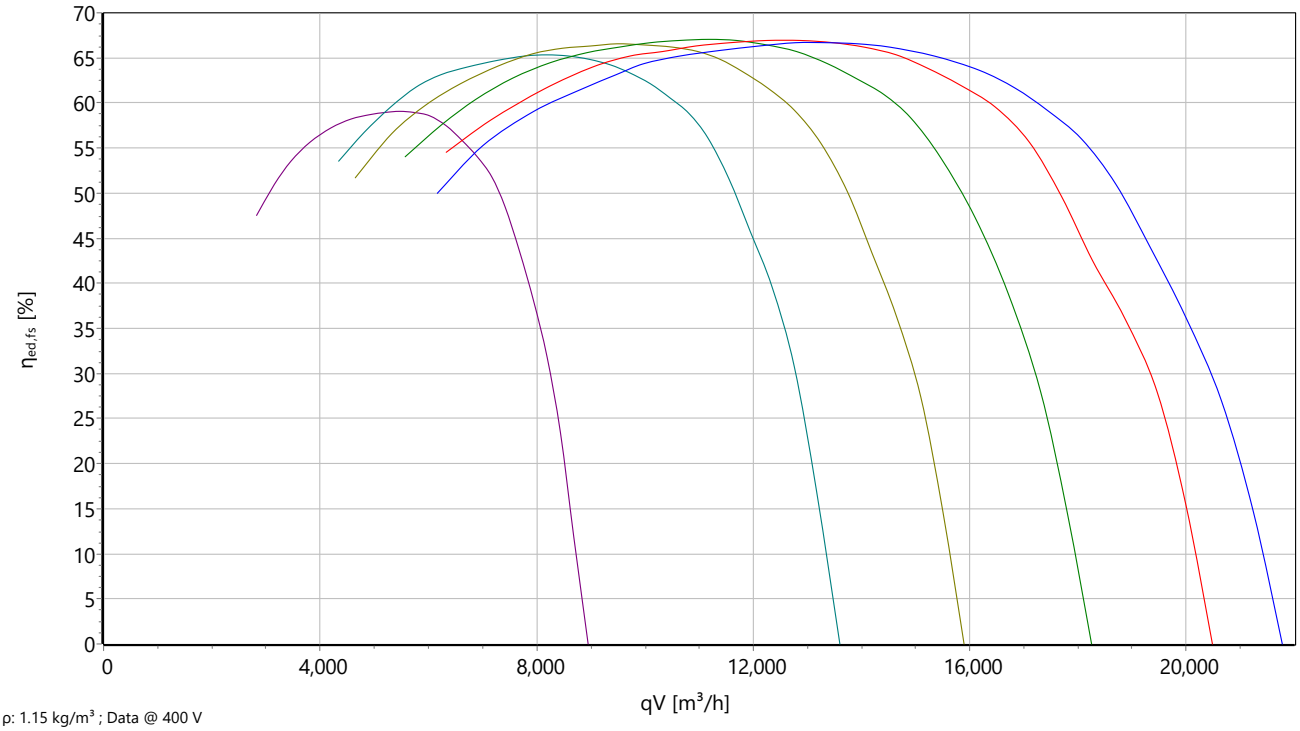
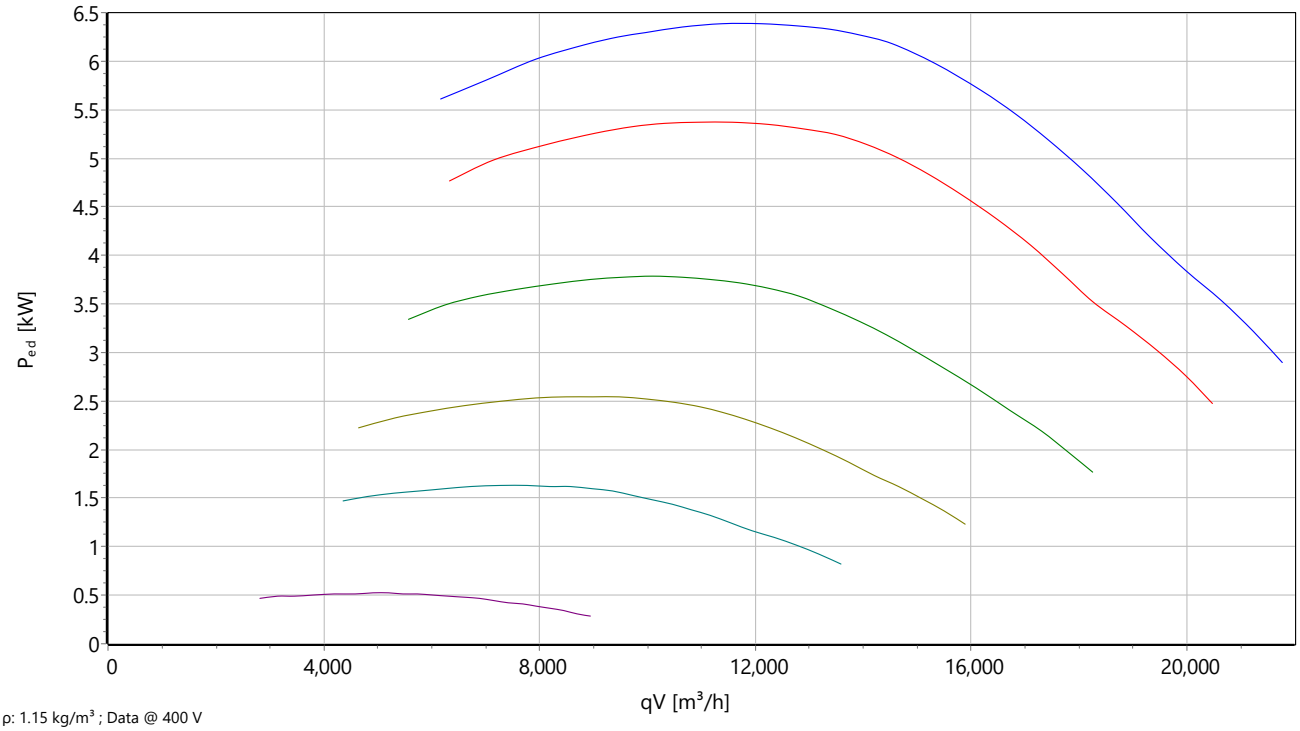
stat. Efficiency



ρ: 1.15 kg/m³ ; Data @ 400 V

Input power



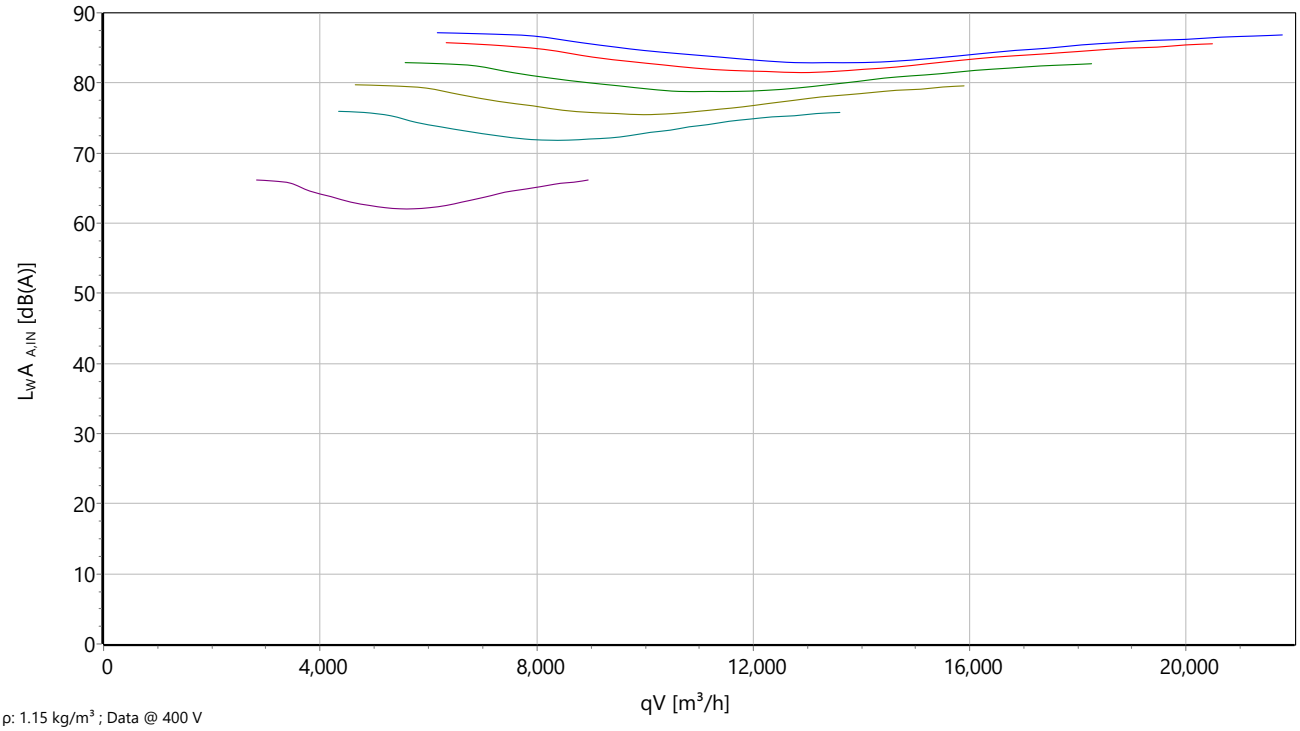
ρ: 1.15 kg/m³ ; Data @ 400 V

Type: **GKHM 560-CII.183.6NA IE Gen3+**

Module Classic

Part no.: N88-56700

Sound power



ρ: 1.15 kg/m³ ; Data @ 400 V

EC-Plug Fan
with backward curved impeller

Impeller made of aluminum (AlMg3) with 5 backward curved, profiled blades and efficiency optimized circumferential diffusor. Sound optimized design. Volumeflow orientated behaviour. Fluidic optimized inlet cone made of galvanised sheet steel. Air Flow measuring equipment with one pressure connection. Compact, weight -reduced fan module "Classic". Consisting of motor, impeller, nozzle and module construction. Motor and nozzle support plate made of galvanized sheet steel with aluminium retaining profiles. Plug & Play. Extra coating on request. Suitable for installation in any position. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940 -11 at least with quality level G6.3. Energy saving EC external -rotor motor of the 3rd generation. Maintenance free ball bearings, closed on both sides with long-term lubrication. Magnets without rare earth elements. Motor made of die casted aluminum. Protection Class IP54 and insulation class F. Electronic with integrated terminal box and environmental resistant cable glands (2x M16 and 1x M20). Status LED integrated. 100% speed controllable with integrated Motor Protection. ModBus RTU Interface integrated. Busconfiguration possibile on site by customer. Soft Start. Potential -free Alarm Contact and integrated 24V Supply for Accessories. Applicable in all common energy grids and IT -Network. Low noise commutation.

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. Standard version with UL motor approval.

Nominal Data:
Voltage [U]
3~380-480 V
Frequency [f]
50/60 Hz
Input power [P]
6.4 kW
Current [I]
9.8 / 8.6 A
Speed [n]
1920 r/min
Medium temperature [tR]
40 °C
Protection Mode
IP 54
Efficiency Class
IE5
K-Factor
283
Weight [m]
64 kg
Dimensions [L / W / H]
800 mm / 800 mm / 610 mm

Contact:
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Type:
GKHM 560-CII.183.6NA IE Gen3+
Article-No.:
N88-56700

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GKH... - Plug Fan

with EC-Motor and I-Impeller

- airflow orientated high performance impeller
- speed infinitely adjustable
- fast start-up (due to pre-configured system)
- different mechanical configurations available
- maintenance free operation through lifetime lubricated ball bearings
- high operating efficiency due to EC drives
- constant high degree of efficiency (even under partial load)

Description:

Rosenberg EC-Plug fans combined with electronically commutated motors (EC -motors), form a very compact, efficient and optimized fan unit. They impress with low installation depth and a simple installation. Fast start-up is ensured because of well-integrated components.

Applications:

Air Handling Units / Wind Power / Compressors / Transformer cooling

Mechanical Configuration:

Plug fans, in dependence of the fan type, are available in different mechanical designs. Mounting either with horizontal or vertical motor shaft.

_KH**R**, RR**E**	= Motorized Impeller (Inlet Cone Accessory)
_KH**M**, RR**M**	= Fan Module type "Classic" cone and supporting frame included
_KH**C**	= Fan Module type "Slim" cone and supporting frame included
_KH**Q**	= Fan Module type "Qube" cone and supporting frame included
_KH**D**	= Module with forwarding device "High Performance"

Impeller:

Impeller made of aluminum (AlMg3) with 5 backward curved, profiled blades and efficiency optimized circumferential diffusor. Sound optimized design. Volumeflow orientated behaviour.

Product range: 355, 400, 450, 500, 560 and 630 mm.

Motors:

The EC motors used are characterized by a very high degree of efficiency, even in partial load ranges, as well as good controlling and regulation behavior. They are easy to connect, individually preconfigured, compact in design and show

a high power density. The implementation of additional functions (e.g. air flow and pressure control) is possible. All motors are infinitely adjustable via Modbus or 0 –10 V signal.

Integrated Motor Protection:
The motor protection is integrated with Rosenberg EC motors. All necessary parameters, such as temperature, blocked rotor, over and undervoltage and power are continuously checked and monitored via an intelligent failure management.

Electrical connection:

1~phase Variants:
The electrical connection is made via cables from the motor.
3~phase Variants:
The electrical connection is made via cable glands from the integrated terminal box of the motor.

Air volume control:

For more information see accessories.

Infinitely variable controlling:
via Potentiometer or external set point
Constant-Air Flow-Control:
via pressure controller in combination with air flow measuring points integrated in the inlet cone
Constant-Pressure-Control:
via pressure controller
Constant-Temperature-Control:
via temperature controller

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.

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).

The ErP - Data applies to Rosenberg modules as complete fans within the meaning of Commission Regulation (EU) 2024/1834

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and does not apply to the motorized impeller version.

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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