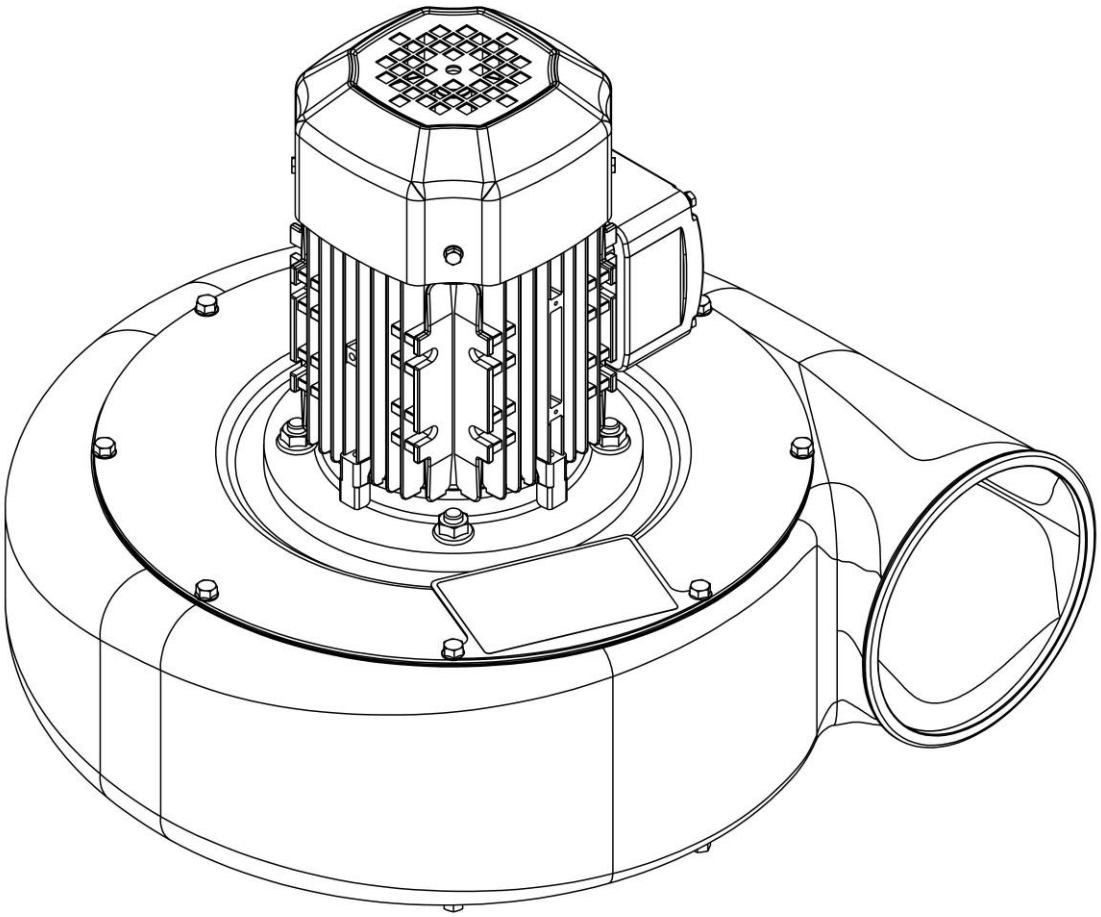
KEMPER®



Ventilator Eco

EN – Operating manual Fan Eco

1 General

1.1 Introduction

This manual is an essential aid for the proper and safe operation of the product.

These operating instructions contain important information to ensure safe, proper and efficient operation of the product. Observing these instructions helps avoiding danger, reducing repair costs and downtimes and increasing the reliability and service life of the product. The operating instructions must be kept available at all times and have to be read and applied by every person who is assigned to work on or with the product.

These include amongst others:

- the operation and troubleshooting during operation
- the maintenance (care, maintenance, repair)
- the transport
- the assembly
- the disposal

Technical modifications and errors expected.

1.2 References to copyright and industrial property rights

These operating instructions are to be kept confidential and made accessible only to authorised persons. Disclosure to third parties is only permitted with the prior written consent of the manufacturer KEMPER GmbH.

All documents are protected under the Copyright Act. Any form of disclosure, reproduction, or partial use, as well as the communication of its content, is prohibited without express written permission.

Violations will be prosecuted under criminal law and will incur liability for any resulting damages.

Industrial property rights such as patents, trademarks, or designs are exclusively held by the manufacturer.

1.3 Notes for the operating company

The operating instructions are an essential part of the product.
The operating company must ensure that the operating personnel is aware of the contents of this manual.

Based on national regulations for accident prevention and environmental protection, the operating instructions are to be supplemented by the operating company's own operating instructions, including information on regulatory and reporting requirements to meet specific operating requirements, such as work organisation, work flow and staff employed. In

addition to the operating instructions and the relevant obligatory regulations for accident prevention applicable in the country of use, it is also imperative to comply with the recognised technical rules for safe and professional handling.

Without prior consent from the manufacturer, the operating company may not carry out any changes, conversions or additions to the product which may impair safety. Spare parts used must comply with the manufacturer's specified technical requirements. This is always the case with original replacement parts.

Only use trained and instructed staff for the operation, maintenance, repair and transport of the product. Clearly define for staff who is responsible for operation, maintenance and transport.

2 Safety

2.1 General information

The product is designed and built according to state-of-the-art technology and the recognised safety rules and regulations. When operating the product, technical hazards for the operator or impairment of the product as well as other property may occur, if:

- it is not operated by trained or instructed personnel
- it is not used for the purpose intended and/or
- it is improperly maintained

2.2 Information on signs and symbols

⚠ DANGER

This symbol in conjunction with the signal word "Danger" indicates imminent danger. Non-adherence of the safety note leads to death or serious injuries.

⚠ WARNING

The symbol in conjunction with the signal word "Warning" indicates a potentially dangerous situation. Non-adherence to the safety notice may lead to death or serious injuries.

⚠ CAUTION

The symbol in conjunction with the signal word "Caution" indicates a potentially dangerous situation. Non-adherence of the safety note may lead to slight or negligible injuries.
May also be used for warnings against property damage.

NOTE

The general information is simple additional information which does not warn about personal injury or property damage.

1. Enumerations of action steps are marked as numbers with a dot, where the order is important.

- Bullet points indicate lists of parts in a legend or instructions for which the sequence is unimportant

2.3 Safety instructions for operating and maintenance staff

⚠ DANGER

Danger to life from contact with rotating parts!

Never reach into the device while it is running.

Before carrying out maintenance work, disconnect the motor from the power supply at all poles and secure it against being switched back on.

⚠ WARNING

Danger of serious injury due to improper operation!

Operate the product only when it is in technically sound condition and used as intended.

Each person must have fully read and understood these operating instructions.

Responsibilities for operation, maintenance and servicing must be clearly defined and adhered to.

⚠ CAUTION

Danger of crushing and cutting injuries!

Do not wear loose clothing, jewellery, or leave long hair unrestrained.

Wear personal protective equipment (PPE): Safety shoes, safety glasses, gloves.

NOTE

The operating instructions must be readily accessible to operating and maintenance staff at all times.

2.4 Safety instructions for maintenance/troubleshooting

Service and maintenance doors must be freely accessible at all times.

Setting up, maintenance and repair work and troubleshooting must only be performed when the product is switched off.

Always tighten bolt connections that have been loosened during repair work. If specified, tighten the relevant bolts with a torque wrench.

In particular, protect connections and screw connections from dirt or care products at the beginning of maintenance/repair/care

The time frames for periodic testing/inspections stipulated or specified in the operating instructions must be observed.

Before disassembling, mark the parts that belong together.

2.5 Notes regarding special types of hazard

⚠ DANGER

Danger of electric shock!

- Before maintenance, repair or troubleshooting work, disconnect the device from the power supply.
- Secure the device against unintentional restarting.
- Work on electrical components must only be carried out by qualified personnel.
- Damaged cables, plugs or other electrical components must be replaced immediately.
- Do not perform any work on live equipment, including with measuring instruments that are not approved for the corresponding voltage category.
- Observe all local regulations and safety guidelines for work on electrical installations.

⚠ WARNING

Electric shock if earthing is missing!

If the protective earth connection of devices is missing or incorrectly executed, high voltages may be present on exposed parts or housing parts which, if touched, can lead to serious injury or death.

⚠ WARNING

Electric shock if an unsuitable power supply is connected!

The connection of an unsuitable power supply can cause parts that can be touched to be under dangerous voltage. Contact with dangerous voltage can lead to serious or fatal injury.

For electrical connection data, see the name plate of the product

Power supply

The product is designed for the mains voltage indicated on the name plate. If mains cables or mains plugs are not fitted to the product, they must be fitted in accordance with national standards.

⚠ CAUTION

Insufficiently dimensioned electrical installation can lead to serious damage to property.

The mains supply line and its fuse protection must be designed in accordance with the existing power supply. Observe the technical data on the name plate.

The mains fuse should be equipped with at least a **category C** circuit breaker.

⚠ CAUTION

Health hazard due to noise!

The product can produce noise, please refer to information in the technical data. In connection with other machines and/or local conditions, a higher noise level can occur at the operation site of the product. In this case, the operating company is obliged to provide the operating personnel with the appropriate protective equipment.

NOTE

Information on explosion protection

- Use in explosive atmospheres is strictly prohibited.
- No flammable or explosive substances may be extracted.

2.6 Operational safety

- Before each start-up, check whether the product is properly assembled, secured and correctly connected to the power supply.
- Operation is only permitted with the casing fully assembled and without any mechanical damage.
- The ambient temperature must not exceed the limits specified by the manufacturer.
- The product may only be operated with the media intended for it (see intended use).
- Operation is only permitted in dry indoor areas. Except for product variants intended for outdoor installation.

3 Product information

3.1 Functional description

The fans are used to generate a directed airflow for the extraction of airborne contaminants such as welding fumes, dust, or polluted gases from the work area. The fans are specifically designed for connection to extraction arms, telescopic arms and extraction cranes. They can also be used with compatible accessories such as wall brackets, slotted suction channels, grinding tables, exhaust hose rollers and flexible hoses.

The fan's scroll casing is made of cast aluminium, while the suction and motor-side housing covers, as well as the inlet nozzle, are made of pressed aluminium sheet. The casing surface is powder-coated, making it particularly durable.

The impeller, also made of aluminium with a conical mounting bush, is statically and dynamically balanced, ensuring smooth operation with minimised vibrations. The backward-curved and diagonally positioned impeller blades provide high efficiency with low noise emission due to their aerodynamics.

The fans are modular in design: the external dimensions remain identical, while different impellers and three-phase asynchronous motors can be used depending on the performance requirements. This allows for easy adaptation to different operating conditions while maintaining a compact design.

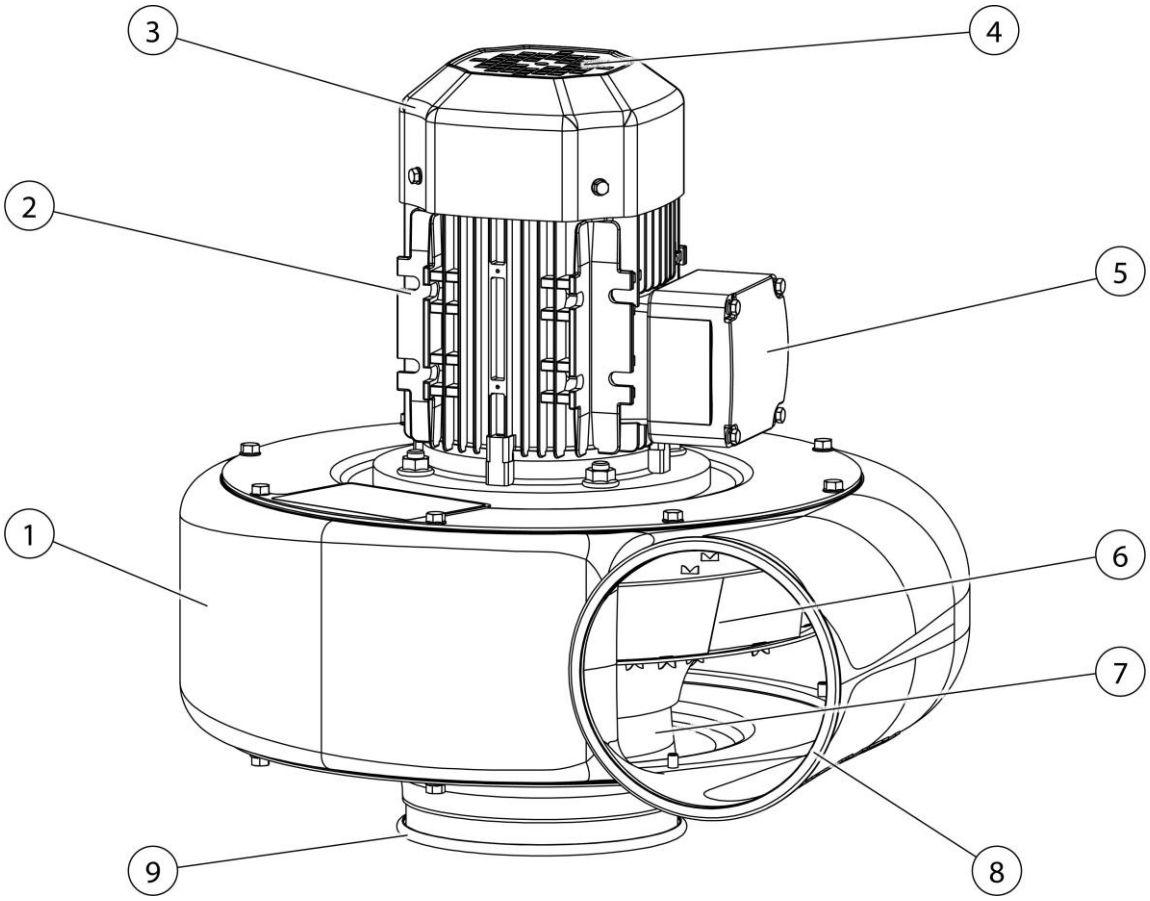


Fig. 1: Functional description

Pos.	Description	Pos.	Description
1	Scroll casing	6	Impeller
2	AC or single-phase motor	7	Inlet nozzle
3	Fan cover	8	Exhaust opening (air outlet)
4	Intake grille - fan cover	9	Intake opening (air inlet)
5	Terminal box (connection box)		

Tab. 1: Functional description – Positions on the product

3.2 Intended use

The product is intended for the extraction and conveyance of air containing low levels of particulate or gaseous contaminants.

Permitted for the conveyance of:

- Welding fumes from thermal cutting and joining processes
- Fine to medium dust from machining processes (e.g. grinding, cutting)

- Contaminated indoor air (for example, in cases of odours, exhaust gases, or aerosol formation)

Not permitted for the conveyance of:

- Flammable gases, vapours, or dusts that may form an explosive mixture with the conveyed air.
- Aggressive or corrosive substances
- Liquids, sticky or fibrous materials
- Media containing abrasive components in concentrations that would cause abrasive wear on the impeller and fan scroll casing.

The product is intended exclusively for stationary operation and may only be used with suitable components from the manufacturer's product system or comparable compatible products.

Use is only permitted in dry, well-ventilated indoor areas that are not classified as explosive atmospheres. The product is not approved for use in explosive atmospheres (EX zones) and does not have ATEX certification.

NOTE

The information in the "Technical data" chapter must be observed and strictly adhered to.

Intended use also includes observation of the instructions and information on

- safety,
- operation and control,
- maintenance and servicing

as described in these operating instructions.

Any other use or use that goes beyond this is considered improper use. The company operating the product is solely responsible for any damage resulting from it. This also applies to unauthorised modifications to the product.

3.3 Reasonably foreseeable misuse

The following uses are considered improper and are to be regarded as foreseeable misuse according to the best technical judgement. They must be avoided and may lead to hazards to persons, the environment, and property:

- Use in explosive atmospheres (e.g. ATEX zones)
- Extraction of flammable, explosive, or self-igniting substances
- Conveyance of aggressive, corrosive, or moist gases, vapours, or aerosols
- Operation outdoors or in damp/wet environments without appropriate protection
- Use for conveying solid materials, swarf, or liquids
- Installation with unauthorised or incompatible fastening systems

3.4 Markings and signs on the product

Various markings and signs are affixed to the product. If these are damaged or removed, please replace them immediately with new ones in the same location.

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such notes and signs might be related, for example, to the requirement for wearing personal protective equipment.

In the country of use, additional required safety instructions and pictograms can be provided by the manufacturer in accordance with applicable law.

3.5 Residual Risk

Even when all safety rules are observed, when operating the product a residual risk remains, as described below.

All persons working on and with the product must be aware of these residual risks and follow the instructions that prevent these residual risks from causing accidents or damages.

4 Transport and Storage

4.1 Transport

⚠ DANGER

Life-threatening crushing possible when loading and transporting the product!

Improper lifting and transporting may cause the pallet (if present) to tilt and fall!

- Never stand under suspended loads.
- Observe the permissible loads of the transport and lifting aids.
- Observe the applicable accident prevention and occupational safety regulations.

For transporting products with a pallet, use a suitable pallet truck or forklift.

The weight of the product can be found on the name plate.

4.2 Storage

The product must be stored in its original packaging at an ambient temperature of 20 °C to +50 °C in a dry and clean place. The packaging must not be loaded by other objects.

The storage duration is not critical for all products.

5 Assembly

Instructions for safe installation of the product

NOTE

The operating company of the product may only assign specialists to carry out independent assembly.

- At least two people are needed to assemble the product.
- It must be ensured that the installation location and point of use of the product provides sufficient load-bearing capacity and good stability.

⚠ DANGER

Falling or tipping parts may cause life-threatening injuries!

Tipping or falling loads lead to severe to fatal injuries.

- Observe the total weight, attachment points and centre of gravity of the load.
- Observe the transport instructions and symbols on the transported goods.

⚠ WARNING

Incorrect connections may cause serious injuries!

Please note the necessary safeguards and only have the product connected by trained specialists.

5.1 Unpacking and assembling the product

NOTE

The operating company of the product may only assign specialists to carry out the independent assembly of the product.

- At least two people are needed to assemble the product.
- The product is intended for mounting on a wall, ceiling or column or mobile chassis, making sure that the mounting location has sufficient load bearing capacity.
- Only use suitable fixing material.
- The fixing material must be selected according to local conditions.
- The product must not obstruct anyone in their working area.

- The motor's cooling air supply must not be obstructed.

The following assembly describes an example installation of the fan.

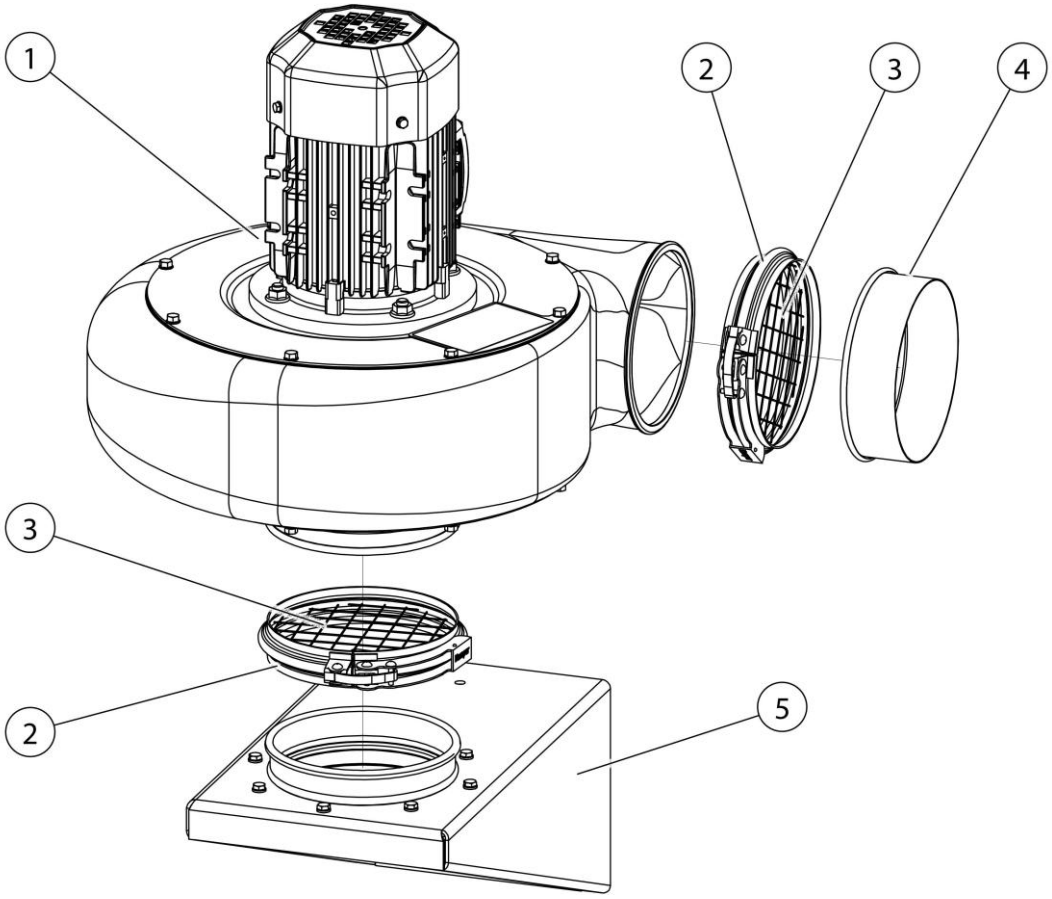


Fig. 2: Mounting example

Pos.	Description	Pos.	Description
1	Fan with motor	4	Connecting piece (optional)
2	Clamp fastener (1 piece included in the delivery)	5	Wall bracket (optional)
3	Protective mesh (optional)		

Tab. 2: Mounting example

To mount the product, proceed as follows:

1. Securely fasten the wall bracket (pos. 5) to a suitable wall, ceiling or column.
2. Place the fan (pos. 1) onto the wall bracket (pos. 5) as shown in the figure and secure it with the clamp fastener (pos. 2).

3. Attach the connecting piece (pos. 4) to the fan (pos. 1) using the clamp fastener (pos. 2).

NOTE

The protective mesh (pos. 3) can be mounted optionally.

It serves to protect the product from the intake of foreign objects.

NOTE

If add-on products are also present, follow the appropriate manuals when assembling them.

5.2 Electrical connection

Example of mounting

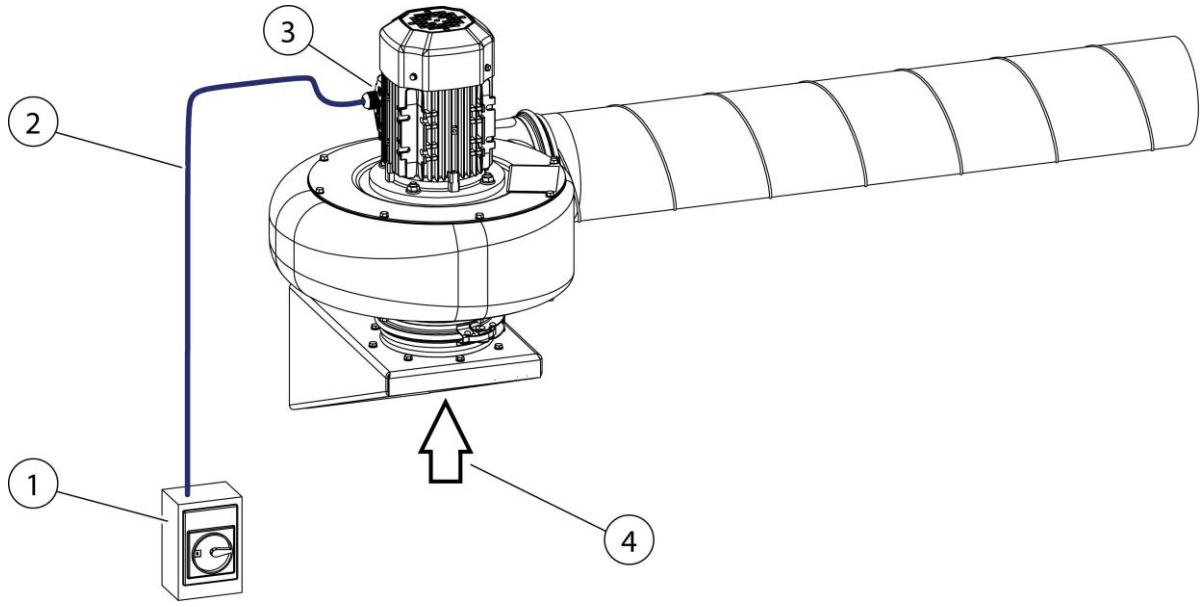


Fig. 3: Electrical connection - Example of mounting

Pos.	Description	Pos.	Description
1	Motor protection switch	3	Terminal box (connection box)
2	Supply cable	4	Connection options for - extraction arm - ducting system - extraction hose

Tab. 3: Electrical connection - Example of mounting

5.2.1 Electrical connection – Single-phase motor

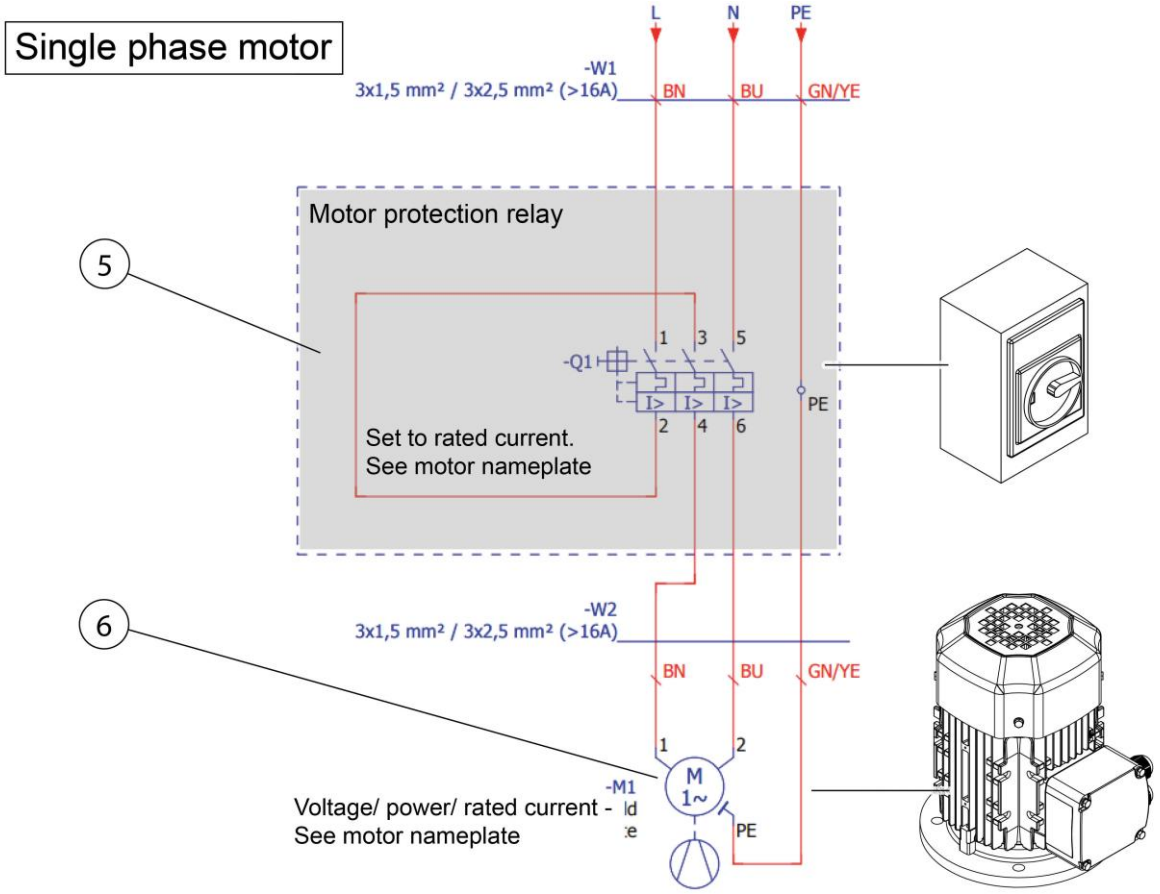


Fig. 4: Wiring diagram - Single-phase motor

Pos.	Description	Function
5	Motor protection switch	For the protection of the motor – The rated current of the motor must be set here.
6	Name plate	Motor power specifications The rated current of the motor can be read here.

Tab. 4: Wiring diagram - Single-phase motor

Motor connection box: Bridge configuration for single-phase motor

Changing the direction of rotation

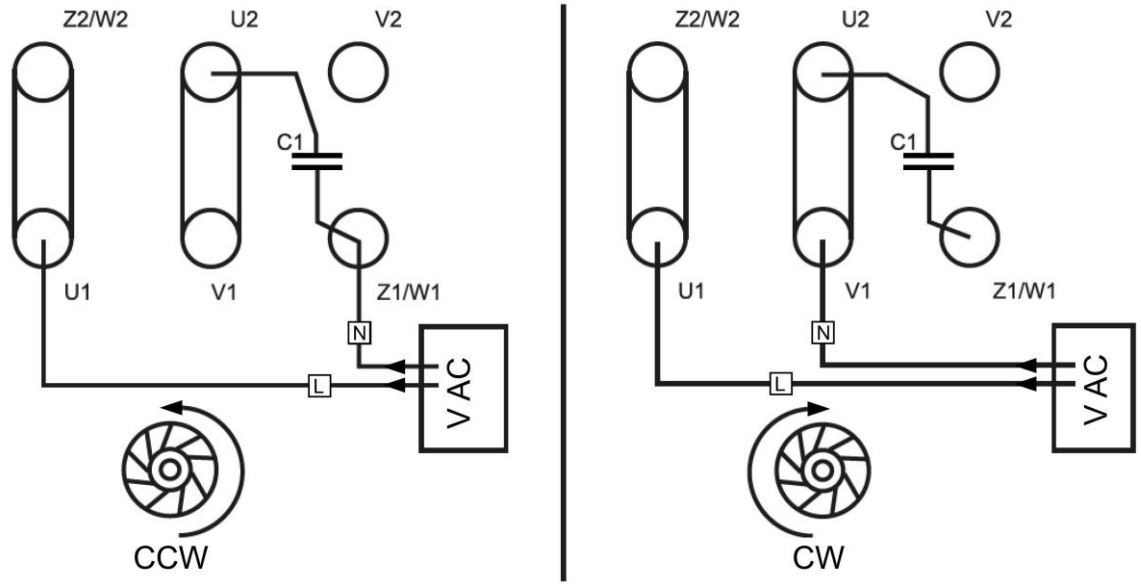


Fig. 5: Motor connection box - Single-phase motor

5.2.2 Electrical connection – Three-phase motor

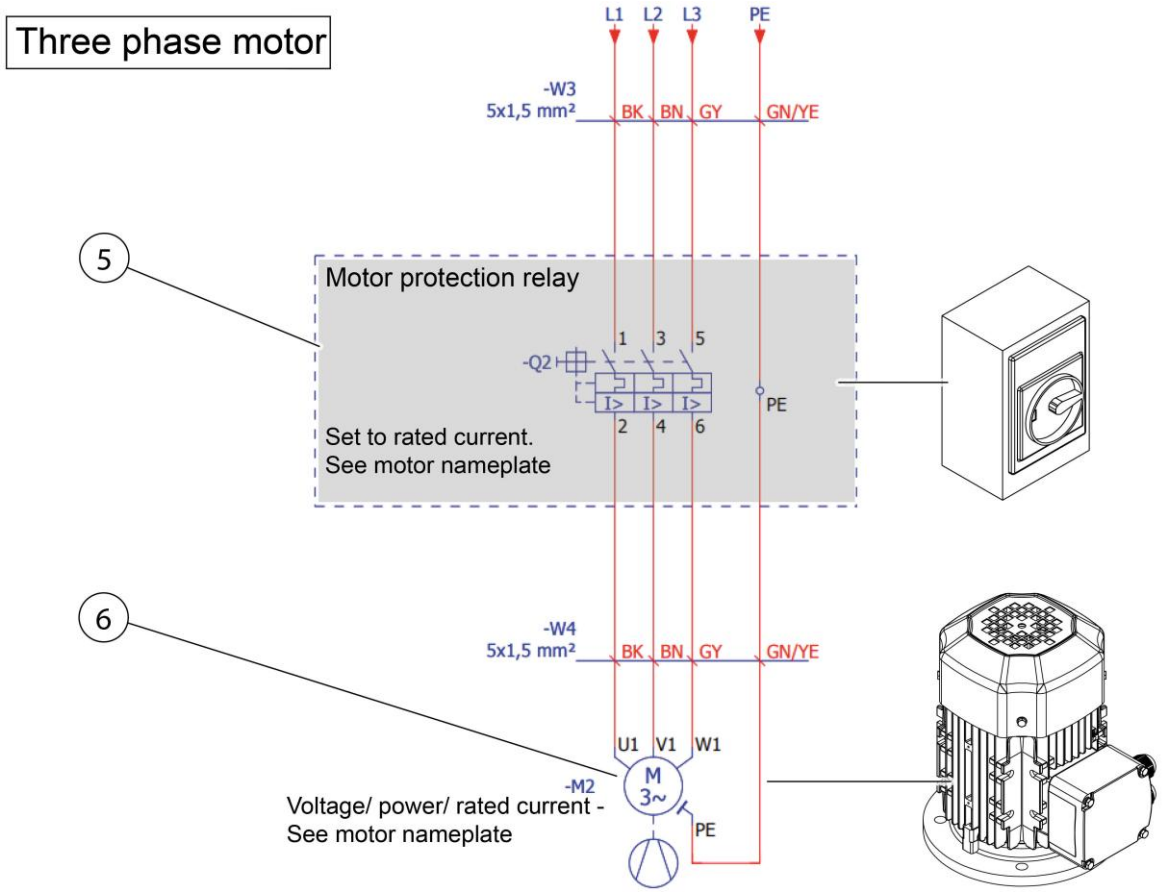


Fig. 6: Wiring diagram - Three-phase motor

Pos.	Description	Function
5	Motor protection switch	For the protection of the motor – The rated current of the motor must be set here.
6	Name plate	Motor power specifications The rated current of the motor can be read here.

Tab. 5: Wiring diagram - Three-phase motor

6 Use

Every person who deals with use, maintenance and repair of the product must have thoroughly read these operating instructions as well as the instructions for any attachment and accessory products and have understood them.

6.1 Qualification of the operating personnel

The operating company of the product may only commission persons to use the product independently if they are well-versed in this task.

Those familiar with this task includes those who have been instructed appropriately in the task and know the operating instructions as well as the operational issues in question.

The product should only be used by trained or instructed personnel.
This is the only way to ensure safety and hazard awareness of all personnel during work.

6.2 Commissioning

⚠ WARNING

Danger due to faulty product condition.

The product must be fully installed before commissioning begins and all necessary connections must be made.

Commissioning must only be carried out by qualified electrical personnel and requires proper assembly as well as a safe electrical connection.

⚠ DANGER

Risk of injury due to unprotected openings!

Operation without connected ducting, hose or protective mesh on the intake or outlet side is not permitted.

Check the following points before switching on:

- Ensure the fan is securely mounted and free of foreign objects.
- Ensure the supply voltage matches the specifications on the name plate.
- Ensure the connected motor protection switch is set to the rated current of the fan motor.
- Ensure connected ducting systems and accessories are correctly installed and airtight.

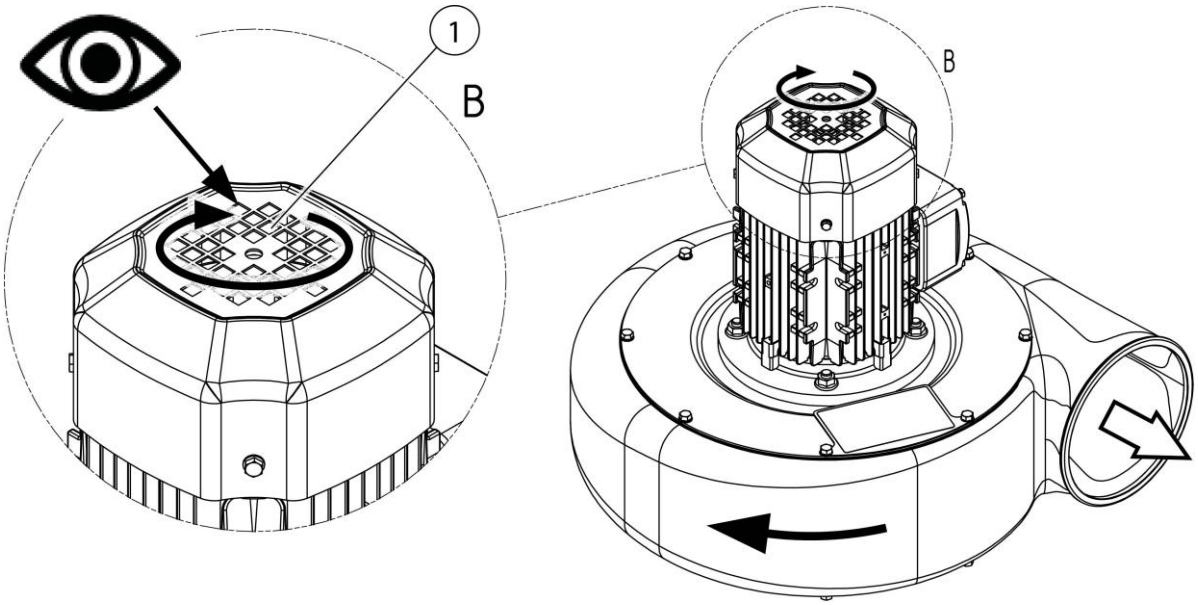


Fig. 7: Checking the direction of rotation of the fan

Commissioning:

1. Switch on the power supply.
2. Briefly operate the main switch (motor protection switch) for about 1 second and check the motor fan wheel (pos. 1) for correct direction of rotation.

ATTENTION

Incorrect direction of rotation!

Even if the direction of rotation is incorrect, the conveying direction remains unchanged, but with the following effects:

- The volume flow and pressure are significantly reduced.
- The operating noise increases significantly due to improper aerodynamics.
- The electrical power consumption increases, which may cause the motor protection device to trip.

3. Run it briefly as a test and check for unusual noises or vibrations.
4. If the fan runs smoothly, it may be put into continuous operation.

7 Maintenance

The instructions in this chapter are intended as minimum requirements. Depending on the operating conditions, further instructions may be required to keep the product in optimal condition.

The maintenance and repair work described in this chapter must only be performed by specially trained repair personnel of the operating company.

Spare parts used must comply with the manufacturer's specified technical requirements.

This is guaranteed if original spare parts are used.

The safe and environmentally friendly disposal of operating materials and replacement parts must be ensured.

The safety instructions in these operating instructions must be observed during maintenance work.

7.1 Care

The care of the product is essentially limited to cleaning all surfaces of the product and – if present – checking the filter inserts.

The warning notices listed in the chapter "Safety notes for maintenance and fault removal" must be observed.

NOTE

The product may not be cleaned with compressed air. This may result in dust and/or dirt particles getting into the ambient air.

Proper care helps to maintain the product in a continuous functional state.

For optimum care and cleaning of the powder-coated surfaces, the following must be observed:

- Thoroughly clean the product monthly or as needed.
- Clean the exterior areas of the product with a suitable industrial vacuum cleaner of dust classification H or with damp soft cloths/industrial cotton wool.
- For stubborn dirt, use commercially available household cleaners. Avoid vigorous rubbing.
- Do not use any abrasive agents that scratch.
- Do not use any acidic or strongly alkaline cleaning agents.
- Do not use organic solvents containing esters, ketones, alcohols, hydrocarbons or similar.

7.2 Troubleshooting

Fault	Possible cause	Note
Fan does not start	No mains voltage	Check mains voltage
	Motor protection relay tripped	Check the motor protection and reset if necessary
	Faulty wiring	Check connections
	Motor defective	Have the motor checked
Fan noisy, insufficient extraction capacity	Incorrect direction of rotation	Swap two phase conductors
Unusual noises	Foreign objects in the casing	Remove foreign objects
	Bearing damage	Repair or replace the motor
	Loose impeller	Check the impeller is correctly seated.
Low extraction capacity	Foreign objects in the intake/outlet ducting	Remove foreign objects
Excessive vibrations	Impeller unbalanced/damaged	Replace the impeller
	Contamination on the impeller	Check and clean the impeller
	Incorrect direction of rotation	Swap two phase conductors

Tab. 6: Troubleshooting

NOTE

If the fault cannot be corrected by the customer, please contact the manufacturer's service department.

7.3 Emergency measures

In case of fire of the product or its detection elements, the following steps should be taken if necessary:

1. Switch off the product and disconnect it from the power supply. If present: pull out mains plug, set main switch to “0” position, and turn off the supply fuses.
2. Fight fire with a commercially available dry powder extinguisher.
3. Notify local fire brigade if necessary.

⚠ WARNING

In the event of a fire, do not touch the product under any circumstances without proper protective gloves. Risk of burns!

8 Disposal

⚠ WARNING

Skin contact with dust and smoke particles can cause skin irritation in sensitive individuals.

Disassembly work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Serious injury to the lungs and respiratory tract is possible!

In order to avoid contact with and inhalation of dust particles, use protective clothing, gloves and a blower respirator system.

The release of hazardous dust particles must be avoided during dismantling work so that persons in the vicinity are not harmed.

ATTENTION

All work on and with the product must comply with the legal obligations for waste avoidance and proper recycling/disposal.

8.1 General information

- The product is made of various materials (metal, plastics, electrical/electronic components).
- At the end of its service life, the product must be disposed of in an environmentally responsible manner.
- National and regional regulations on waste disposal and recycling must be observed.

8.2 Plastics

- Plastics, if present, must be sorted as far as possible.
- Plastic parts must be disposed of through the appropriate plastic collection systems.

8.3 Metals

- Metals, if present, must be separated and disposed of.
- Metal parts can be recycled through the metal recycling stream.

8.4 Electrical and electronic components

- Electrical/electronic components are hazardous waste and must be disposed of separately.
- Disposal must be carried out through certified disposal or recycling companies.

8.5 End-of-life equipment

- In the EU, Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) applies.
- The product is marked with the symbol of a crossed-out wheeled bin. Therefore, it must not be disposed of with household waste.

9 Annex

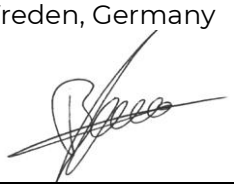
9.1 EC compliance statement

Designation:	Fan systems
Series:	Ventilator Eco
Type:	92110151, 92110100, 92120151, 92120100, 92130150, 92130100, 92110261, 92110210, 92120261, 92120210, 92120220, 92130260, 92130210 (possibly different article numbers for other product variants)
Machine ID:	See name plate in front section of these operating instructions
	The product is developed, designed and manufactured in accordance with: Regulation (EU) 2024/1834 (Ecodesign for fans) Regulation (EU) 2019/1781 (Ecodesign for electric motors) 2006/42/EC - Machinery Directive 2014/30/EU - Electromagnetic Compatibility (EMC) Directive 2014/35/EU – Low Voltage Directive
	At the sole responsibility of
Company:	KEMPER GmbH Von-Siemens-Str. 20, D-48691 Vreden

The following harmonized standards are used:
EN ISO 5801:2017 Fans – Performance testing using standardized airways
EN ISO 12759-4:2020 Efficiency classification for fans
EN IEC 60034-1:2010 Rotating electrical machines
EN IEC 60034-30-1:2014 Rotating electrical machines – Efficiency
EN ISO 12100:2010 Safety of machinery - General principles for design
EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
Additional information:
If it is not used for as intended or the design is altered, the Declaration of Conformity expires, unless confirmed in writing by us as manufacturers.

Mr Marcel Kusche is authorised to compile the technical documentation. Kemper GmbH, Von-Siemens-Str. 20, 48691 Vreden, Germany



Vreden, 10.10.2025		CEO
Place, date	B. KEMPER	Identification of the signatory

9.2 UKCA Declaration of Conformity

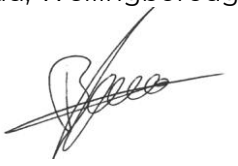
Designation:	Fan systems
Series:	Ventilator Eco
Type:	**92110151, 92110100, 92120151, 92120100, 92130150, 92130100, 92110261, 92110210, 92120261, 92120210, 92120220, 92130260, 92130210** (possibly different article numbers for other product variants)
Machine ID:	See name plate in front section of this operating manual This product is developed, designed and manufactured in accordance with the UKCA directives Supply of Machinery (Safety) Regulations 2008 (UK implementation of Machinery Directive) Electrical Equipment (Safety) Regulations 2016 (UK implementation of LVD) Electromagnetic Compatibility Regulations 2016 (UK implementation of EMCD) Ecodesign for Energy-Related Products Regulations 2010 (as amended) → covering motors and fans (equivalent to EU 2019/1781 & 2024/1834) Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS), where applicable
Company:	**KEMPER GmbH** Von-Siemens-Str. 20, D-48691 Vreden

The following designated standards and technical specifications have been applied:

BS EN ISO 5801:2017 Industrial fans – Performance testing
BS EN ISO 12759-4:2020 Fans – Efficiency requirements
BS EN IEC 60034-1:2010 Rotating electrical machines
BS EN IEC 60034-30-1:2014 Rotating electrical machines – Efficiency classes (IE)
BS EN ISO 12100:2010 Safety of machinery - General principles for design
BS EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
BS EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
BS EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
Additional information:
If it is not used for as intended or the design is altered, the Declaration of Conformity expires, unless confirmed in writing by us as manufacturers.

UK Authorised Representative (for authorities only): Mr. Marc Crawford
United Kingdom KEMPER (U.K.) Ltd.
Venture Court, 2 Debdale Road, Wellingborough, Northamptonshire NN8 5AA



Vreden, 10.10.2025 CEO

Place, date	B. Kemper	Identification of the signatory

9.3 Technical data – General

Designation	Note
Dimensions of the basic product W x H x D	See dimension sheet
Power supply/rated current/protection type/ISO class	See product name plate
Fan efficiency / efficiency class	
Volume flow / pressure	
Recommended operating range	
Permissible ambient temperature °C [°F]	-10 to + 40 [+14 to +104]
Duty cycle %	100

Tab. 7: Technical data – General

9.4 Technical data

Designation	A1	A1
Type	**92110151**	**92110100**
Max. fan capacity m^3/h [CFM]	1,500 [883]	1,500 [883]
Motor connection (phases)	1~	3~
Motor power kW [hp]	0.75 [1.01]	0.75 [1.01]
Noise level dB(A)	63.5	59.1
Weight kg [lbs]	30 [67]	30 [67]

Tab. 8: Technical data

Designation	B1	B1
Type	**92120151**	**92120100**
Max. fan capacity m³/h [CFM]	2,000 [1177]	2,000 [1177]
Motor connection (phases)	1~	3~
Motor power kW [hp]	0.75 [1.01]	0.75 [1.01]
Noise level dB(A)	65.8	64.9
Weight kg [lbs]	30 [67]	30 [67]

Tab. 9: Technical data

Designation	C1	C1
Type	**92130150**	**92130100**
Max. fan capacity m³/h [CFM]	3,000 [1766]	3,000 [1766]
Motor connection (phases)	1~	3~
Motor power kW [hp]	1.1 [1.48]	1.1 [1.48]
Noise level dB(A)	64.1	70.0
Weight kg [lbs]	30 [67]	30 [67]

Tab. 10: Technical data

Designation	A2	A2
Type	**92110261**	**92110210**
Max. fan capacity m³/h [CFM]	1,500 [883]	1,500 [883]
Motor connection (phases)	1~	3~
Motor power kW [hp]	0.75 [1.01]	0.75 [1.01]
Noise level dB(A)	Upon request	Upon request
Weight kg [lbs]	30 [67]	30 [67]

Tab. 11: Technical data

Designation	B2	B2
Type	**92120261**	**92120210**
Max. fan capacity m³/h [CFM]	2,000 [1177]	2,000 [1177]
Motor connection (phases)	1~	3~
Motor power kW [hp]	0.75 [1.01]	0.75 [1.01]
Noise level dB(A)	65.8	72.4
Weight kg [lbs]	30 [67]	30 [67]

Tab. 12: Technical data

Designation	B2	C2
Type	**92120220**	**92130260**
Max. fan capacity m³/h [CFM]	3,000 [1766]	3,000 [1766]
Motor connection (phases)	3~	1~
Motor power kW [hp]	0.75 [1.01]	1.1 [1.48]
Noise level dB(A)	72.4	Upon request
Weight kg [lbs]	30 [67]	30 [67]

Tab. 13: Technical data

Designation	C2
Type	**92130210**
Max. fan capacity m³/h [CFM]	3,000 [1766]
Motor connection (phases)	3~
Motor power kW [hp]	1.1 [1.48]
Noise level dB(A)	Upon request
Weight kg [lbs]	30 [67]

Tab. 14: Technical data

9.5 Dimensions sheet

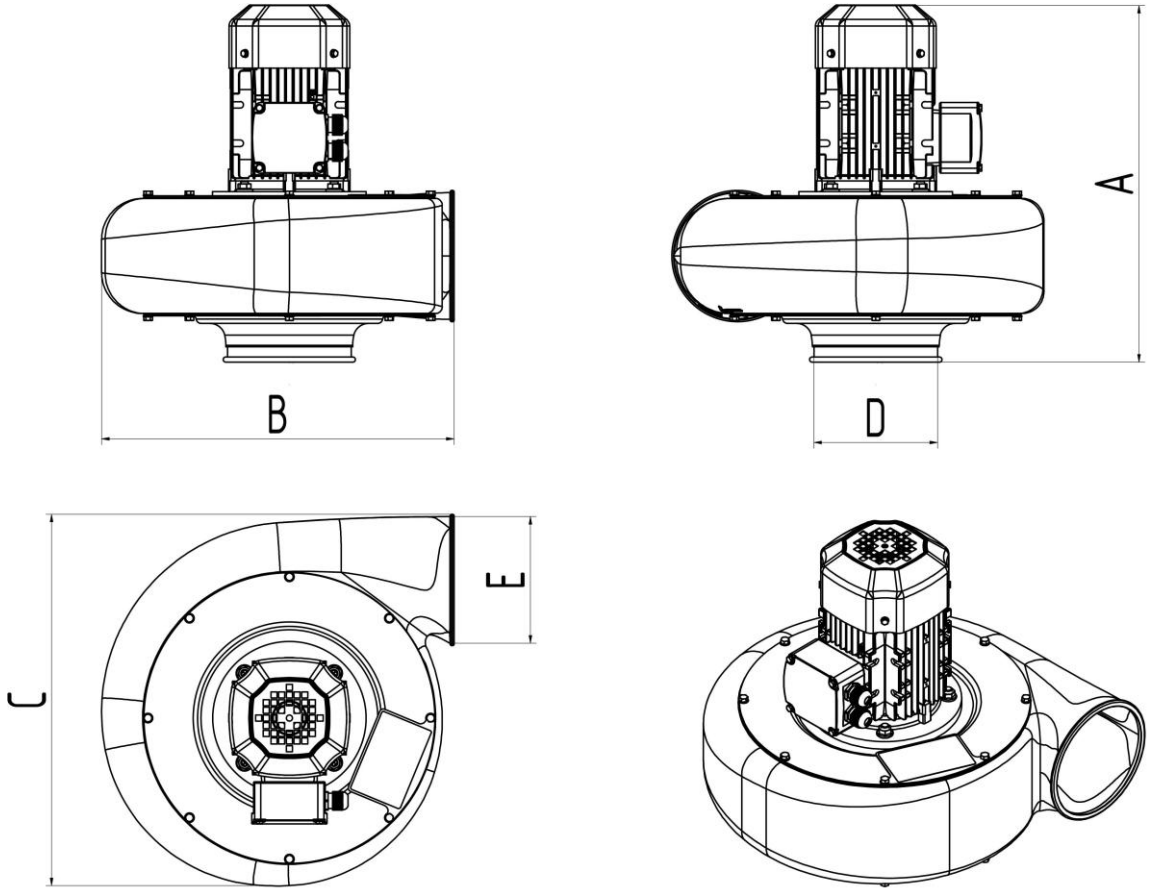


Fig. 8: Dimensions sheet

A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]
486 [19.1]	459 [18.1]	485 [19.1]	159 [6.3]	155 [6.1]

Tab. 15: Dimensions

9.6 Spare parts and accessories

Consec. no.	Description	Note	Part no.
1	Clamp fastener	1x	1460013
2	Set of connecting material	1 x clamp fastener with connecting piece DN 160 + hose clamp	92018
3	Wall bracket	DN 160 mm	93005
4	Protective mesh	DN 160 mm	1270007

Tab. 16: Spare parts and accessories

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