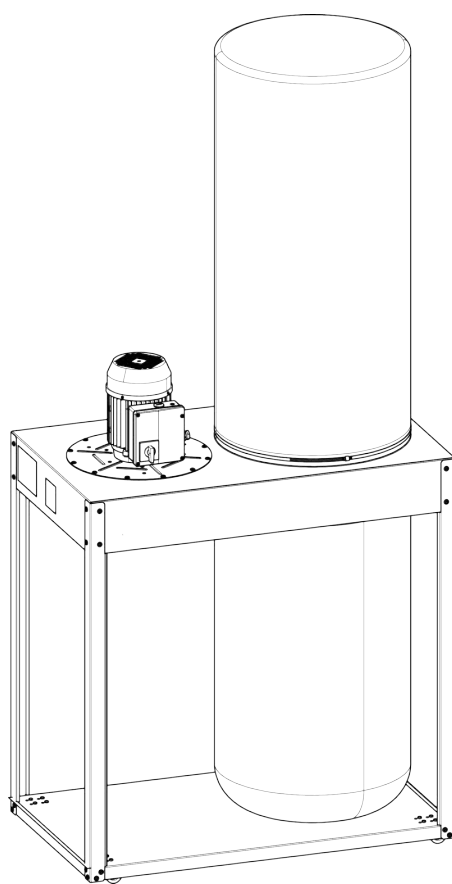


AF 14 AF 16

Raw air extraction unit



Keep this manual to hand and in good condition for future reference. Before using the machine, read this operating manual carefully!

Translation of the original operating instructions

Operating instructions

FELDER KG

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1 Information about the manual

1.1 Explanation of symbols

Safety instructions

Safety instructions in this manual are indicated with symbols. The safety instructions are preceded by signal words that indicate the severity of the hazard.

Comply with safety instructions under all circumstances, and act with care in order to avoid accidents, personal injury, or material damage.



DANGER

... indicates a situation of immediate danger which will result in death or severe injuries if it is not avoided.



WARNING

... indicates a potentially dangerous situation which, if not avoided, could result in death or serious injury.



CAUTION

... indicates a potentially dangerous situation which, if not avoided, could result in minor or slight injuries.



NOTICE

... indicates a potentially dangerous situation which, if not avoided, could result in material damage.

Structure of a safety instruction based on the SAFE principle

Survey the workspace and environment

Uses the signal word and symbol to provide object description information regarding the level of risk to people and property (Attention / Warning / Danger).

Assess and eliminate hazards

Describes the cause of the hazard.

Follow operating instructions, and be aware of the consequences

Describes the consequences of failing to pay attention to the warnings.

Avoiding danger

Describes measures to prevent the hazard.

Example of a safety instruction:



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
- Check that there are no other persons in the immediate vicinity of the machine.

Tips and recommendations



... emphasises useful tips and recommendations as well as information for efficient and trouble-free operation.

OK / NOK

Symbols	Explanation
	Result is okay.
	Result is not okay. Procedure when trouble-shooting.

Safety instructions symbol

The following symbols may appear in the operating instructions.

Icon	Object description
	General warnings
	Warning of electrical voltage
	Warning of dangers due to charging batteries
	Warning of obstacles in the head area
	Warning of falling objects
	Warning about falling loads
	Warning of suspended loads
	Warning against crushing
	Warning of hand injuries due to crushing
	Warning of hand injuries due to cutting
	Warning of hot surfaces

The following symbols may appear in the description of operating equipment.

Icon	Object description
	Warning about hazardous substances
	Warning of environmentally hazardous substances
	Warning of flammable substances

1.2 Contents of the operating manual

- This operating manual describes the safe and proper use of the machine.
- All instructions in this manual must be strictly followed without exception.
- The operating manual is an integral part of the machine. It must therefore be kept in the direct vicinity of the machine and be accessible at all times.
- The operating manual must always accompany the machine.

1.3 Liability and warranty

- The contents and instructions in this manual have been compiled in consideration of current regulations and state-of-the-art technology as well as based on our know-how and experience acquired over many years.
- The manufacturer shall not be liable for damage and/or faults resulting from the disregard of instructions in the manual.
- The text and images do not necessarily represent the exact product that has been delivered. The images and graphics are not depicted on a 1:1 scale. The product that has been delivered, may have custom-built specifications, add-on options or recent technical modifications and may therefore deviate from the descriptions, instructions and images contained in the manual.
- We reserve the right to make technical changes to the product in order to improve the properties of use and further product development.
- The guarantee period is in accordance with national guidelines. Details may be found on our website, www.felder-group.com.
- Should any questions arise, please contact the manufacturer.

1.4 Copyright

- This manual should be treated as confidential. It is intended solely for those people who are to work on or with the machine.
- All descriptions, texts, drawings, photos and other depictions are protected by copyright and other commercial laws.
- Any unauthorised use is prohibited.
- This manual, in its entirety or parts thereof, may not be transferred to third parties or copied in any way or form, and its contents may not be used or otherwise communicated without the express written consent of the manufacturer. Infringement of these rights may lead to a claim for compensation. The right to further claims is reserved.
- We reserve all rights to exercise industrial property rights.

1.5 Training

- All those appointed to work on or with the machine must have fully read and understood the manual before commencing any work. This requirement must be met even if the appointed person is familiar with the operation of such a machine or a similar one, or has been trained by the manufacturer.
- Knowledge about the contents of this manual is a prerequisite for protecting personnel from hazards and avoiding mistakes so that the machine may be operated in a safe and trouble free manner.
- It is recommended that the operator requests proof from the personnel that the contents of the manual have been read and understood.

1.6 Contact Felder Group service centre

In the event of faults, problems and questions about your machine, please contact the local Felder Group service centre. You can find the contact details on our website: ➔ www.felder-group.com

2 Safety instructions

2.1 Intended use

- The unit described in these operating instructions may only be connected to woodworking machines.
- The unit is intended solely for collecting, transporting and separating dust and chips from single or multiple dust sources.
Suitable materials are: ➔ *'Suitable materials (suitable in terms of safety)' on page 5*
- The unit must not be installed or operated in commercial premises, in workrooms or other indoor areas where people are present on a permanent basis, unless this is specifically permitted by the applicable national regulations. When operating the unit in a separate room, ensure there is sufficient exhaust air in the installation room where the unit is installed and an adequate supply of fresh air in the room where the machine is being ventilated.
- Operational safety is only guaranteed when the appliance is used for the intended purposes. The unit is not suitable for use in potentially explosive areas (e.g. zones in accordance with ATEX / IECEx). The unit does not have an explosion-proof certification and must only be operated in locations where, when used as intended, no hazardous explosive atmosphere can arise.
- Any application, other than that of the intended purpose of the appliance shall be considered improper and is therefore not permitted. All claims made, against the manufacturer and its authorised representative regarding damage resulting from improper use of the appliance will be rejected. The operator is solely liable for any damage that results from improper use of the machine.
- The term "proper use" also refers to correctly observing the operating conditions as well as the specifications and instructions in this manual. The appliance may only be operated with parts and accessories recommended by the manufacturer. ➔ *Further information on page 19 ➔ Chapter 3 'Technical information' on page 9*

2.1.1 Suitable and unsuitable materials for dust extraction

Suitable materials (suitable in terms of safety)

The dust extraction of unsuitable materials can lead to the formation of explosive atmospheres for which the machine is not suitable. This can lead to explosions and fires that can seriously injure, or be lethal.

In terms of safety, the appliance is only suitable for extraction:

- Dusts of dust explosion class St 1 ($K_{St} \leq 200 \text{ bar m/sec}$).
- Wood dust and wood chips (solid wood of all types, wood moisture < 30 %).
- Panel material such as ply wood, medium density fibre boards (MDF), highly compressed fibre boards (HDF), chipboards, plywood sheets.
- Panel materials with coatings or edges made of plastic or light aluminium.
- Materials with wood-like properties (cork, plastic, hard rubber, bone, paper, cardboard...), provided that their safety-related characteristics (e.g. dust explosion class,

minimum ignition energy) and are comparable to those of the substances mentioned above. If in doubt, please contact the manufacturer before use.

- Woodworking machines, where there is no chance that a spark could occur under normal operation (woodworking machines that cannot cause sparks according to BGI 739).

Unsuitable materials (not suitable in terms of safety)

The dust extraction of unsuitable materials such as explosive dusts, gases or flammable liquids can lead to the formation of explosive atmospheres for which the machine is not suitable. This can lead to explosions and fires that can seriously injure, or be lethal.

For safety reasons, the device is not suitable for extraction of the following:

- substances that are explosive or deemed to be so within the meaning of Section 1 of the Explosives Act (SprengG) or comparable national regulations.
- Dusts of dust explosion class St 2 ($K_{St} > 200 \leq 300$ bar m/sec) and St 3 ($K_{St} > 300$ bar m/sec).
- Dust that requires very little minimum ignition energy (under 10 mJ).
- explosive gases or gas/air mix.
- flammable liquids including combinations of flammable dust with flammable liquid.
- Woodworking machines, where there is a chance that a spark could be caused (e.g. a multi blade saw).
- statically adhesive or sticky materials.
- explosive dusts or quantities of dust during work involving sparks or sources of ignition (e.g. welding, steel grinding, etc.).

Effective ignition sources include:

- Open fire, cigarettes, smouldering embers
- Mechanical sparks caused by tools
- Impact and friction sparks from metal parts
- Flying sparks during welding and abrasive cutting work
- Hot-running drives / hot surfaces
- Electrostatic discharge with high energy
- Short circuits and switch sparks in electrical equipment

2.2 Making changes and modifications to the machine

In order to avoid potential hazards and to ensure optimum performance, no modifications, alterations or changes may be made to the machine that have not been explicitly approved by the manufacturer.

Unauthorised modifications, conversions and extensions to the machine

Modifications, conversions and extensions to the machine may jeopardise the functionality and operational safety of the machine. This can seriously injure or kill people.

- Modifications, conversions and extensions may only be carried out by an authorised specialist with the express permission of the manufacturer.

Missing or illegible safety stickers

Pictograms, signs and labelling on the machine warn of hazards and misuse and are an important part of the safety equipment. Missing or illegible safety stickers increase the risk of serious and fatal injuries.

- Keep all pictograms, signs and labelling on the machine in a legible condition. ➔ *Chapter 4.2 'Pictograms, signs and labels' on page 12*
- Damaged or illegible pictograms, signs and labelling must be replaced immediately.
- Label spare parts with the safety stickers provided.

2.3 Responsibilities of the operator

- The machine may only be operated if it is in proper working order and in safe condition.
- The machine must be inspected for visible defects and damage each time before it is switched on.
- Do not leave the machine running unattended.
- Secure the switched-off machine against unauthorised operation (padlock on the main switch, remove the key from the operating mode selector switch, block off the area around the machine, pull out the mains plug etc.).
- In addition to the safety advice and instructions specified in this operating manual, any local accident prevention regulations and general safety regulations applicable to the machine's area of use, as well as any applicable environmental protection regulations, must be observed and complied with.
- The operator and designated personnel are responsible for the trouble-free operation of the machine as well as for clearly establishing who is in charge of installing, servicing, maintaining and cleaning the machine. Keep children away from machines, tools and accessories.

2.4 Requirements of the personnel

- Only authorised and trained personnel may work on and with the machine. "Qualified personnel" is a term that refers to those who – due to their professional training, know-how, experience, and knowledge of relevant regulations – are in a position to assess delegated tasks and recognise potential risks.
- Personnel must be briefed about all potential dangers of the machine.
- Personnel must be familiar with the functions of the machine's guards and protective devices and their regular inspection.
- If the personnel lack the necessary knowledge for working on or with the machine, they must be trained. Responsibility for working with the machine (installation, service, maintenance, overhaul) must be clearly defined and strictly observed.
- Only those people who can be expected to carry out their work reliably may be given permission to work on or with the machine.
- Personnel must refrain from working in ways that could harm others, the environment or the machine itself.
- It is absolutely forbidden for anyone who is under the influence of drugs, alcohol or reaction-impairing medication to work on or with the machine.
- When appointing personnel to work on the machine, it is necessary to observe all local regulations regarding age and professional status.
- The machine may only be operated by an adult, that is without mental limitations or under the supervision of such a person.
- The operator must ensure that unauthorised persons maintain a sufficient safety distance from the machine.
- Personnel are obliged to immediately report any irregularities with the machine that might compromise safety to the operator.

2.5 Work safety

- Following the safety advice and instructions given in this manual can prevent bodily injury and material damage while working on and with the machine.
- Failure to observe these instructions can lead to bodily injury and damage to or destruction of the machine.
- Disregard of the safety advice and instructions given in this manual as well as the accident prevention regulations and general safety regulations applicable to the

operative range of the machine shall release the manufacturer and their authorised representatives from any liability and from any compensation claims.

2.6 Personal protective equipment

2.6.1 Prohibitions

When working on or with the machine, the following must be strictly observed:

	Please note
	Long, loose hair is forbidden. A hair net must be worn with long hair and beards.
	It is prohibited to wear gloves whilst working with the machine. It is only allowed to wear gloves whilst carrying out tool changes and maintenance work.
	Wearing watches, rings and other jewellery is forbidden. Remove all jewellery, bracelets, watches and rings when operating the machine or carrying out maintenance work.

2.6.2 Mandatory safety equipment

Basic personal protective equipment

The personal protective equipment must comply with the applicable national regulations and standards. Personal protective equipment must be checked to ensure that it is in perfect condition before each use. Only personal protective equipment that is fully functional, undamaged and suitable for the intended use may be used.

When working on and with the machine, suitable personal protective equipment must be worn depending on the activity and hazard situation. As a rule, this includes:

	Please note
	Protective clothing: Sturdy, tight-fitting clothing (tear-resistant, no wide sleeves).
	Protective footwear: To protect feet from heavy falling objects and prevent from slipping on slippery floors.
	Ear protection: To protect against loss of hearing.
	Safety goggles: Protection to prevent damage to eyes.
	Respiratory mask: To protect from dust when carrying out cleaning and maintenance work. Use respiratory protection with particle filter $\geq 94\%$ filtration efficiency (e.g. filter class P2 according to EN 143 or N95 according to NIOSH). For potentially carcinogenic dusts, use respiratory protection with particle filter $\geq 99.95\%$ filtration efficiency (e.g. filter class P3 according to EN 143 or N100/P100 according to NIOSH).

Additional protective equipment required

The activity-specific personal protective equipment required in addition to the basic personal protective equipment is described in the respective chapters and sections of this manual.

The basic personal protective equipment is not mentioned again in the following chapters and sections.

2.7 Basic safety instructions

The machine has undergone a hazard analysis. The design and construction of the machine are based on the results of this analysis and correspond to state-of-the-art technology. The machine is considered operationally safe when used properly. Even if the safety measures are complied with, there are still certain associated risks that must be considered when working on the machine. This information should enable operators to better assess hazards and risks and avoid foreseeable misuse.

Disregarding operating instructions

The operational safety of the machine is only guaranteed if the operating instructions are observed. People could be seriously injured or killed.

- Read and observe the operating instructions in full before commissioning.
- Only the equipment, tools and procedures specified in the operating instructions are safe.
- Do not operate the machine if, the operating instructions are not complete, or if it isn't available in the language of the country of operation.
- Keep the operating instructions with the machine and keep them available.

Disorder at the workplace

Loose objects or objects that are lying around can cause severe injuries.

- Ensure that there is sufficient space to work around the machine.
- Remove loose objects and tools from the work area.
- Keep the work area orderly and clean.

Insufficient lighting of the installation site

Tripping and falling due to inadequate lighting can lead to serious injuries.

- Illuminate installation site sufficiently.

Dust deposits

Dust build-ups can ignite when in contact with hot parts or cause an explosive atmosphere due to resuspension. Fire or explosion events can cause serious injuries.

- Clean production area as needed.
- Open fire, smoking and cleaning with compressed air forbidden.
- Only carry out spark-producing work and hot work after work release process.

Standing on the machine

The covers or projecting components of the machine are not suitable for standing on them. Falling off the machine can result in serious injury.

- It is forbidden to climb onto the machine.

Damage to electrical components or their insulation

Damaged electrical components or damage to their insulation cause deadly electric shocks.

- Work on electrical fittings may only be carried out by qualified personnel and in strict observance of the safety instructions.
- Disconnect machine from power supply and secure against restarting before carrying out work at electrical devices.

Incorrect operation of the machine

The operational safety of the machine is only guaranteed if the information included in the operating instructions is observed. People could be seriously injured or killed.

- Work on the machine, in particular work on electrical equipment as well as maintenance, adjustment and set-up work, must be carried out exclusively by professionally qualified, authorised and trained personnel, in compliance with all applicable safety regulations.
- Before starting work, disconnect the machine from the mains and ensure that it cannot be switched on again.
- All safety devices must be checked to ensure they are in perfect working order and must be used in accordance with the instructions. Do not deactivate or bypass safety equipment.

2.7.1 Transport, setup, installation and disposal

Incorrect setup and installation

Incorrect setup and installation of the machine may result in serious injury. Unstable, damaged or incorrectly assembled machinery may tip over, vibrate or malfunction, leading to accidents caused by falls, electrical hazards or uncontrolled movements.

- Before assembling and installing the machine, check to make sure it is complete and in perfect working order.
- Only assemble and install the machine if the machine and all of the parts are complete and intact.
- Do not connect extraction pipe systems directly to the extraction connection.
- Only operate the fan impeller in the rotation direction indicated by the arrow.
- Ensure that the engine is adequately ventilated.

Inappropriate installation location

If the machine's installation is incorrect in a room where people are present on a permanent basis, inhalation of dust may lead to respiratory diseases and lung damage. Machinery that is unstable, damaged or incorrectly positioned may tip over, vibrate or malfunction, leading to accidents caused by falls, electrical hazards or uncontrolled movements. People could be seriously injured or killed.

- The unit must not be installed or operated in commercial premises, in workrooms or other indoor areas where people are present on a permanent basis, unless this is specifically permitted by the applicable national regulations
- Do not setup machine in areas with high electromagnetic fields.
- Only operate the device in non-hazardous areas.
- Do not setup machine in escape routes.
- Only place machine within buildings.
- Place the machine on a level, sufficiently stable, non-slip and vibration-free surface.
- The load-bearing capacity, coating and surface of the floor must remain constant in the long term.
- The floor around the machine must be level, well maintained, free of obstacles and free of debris such as chips and offcuts.

Electrostatic charging of the extraction hoses

Burns or electric shock caused by unearthed, or low quality extraction hose.

- Always ensure continuous electrostatic earthing when connecting machines.
- Only use dust extraction hose approved by the manufacturer. ➔ *Further information on page 19*

Indirect touch with residual currents

If the power supply of the machine is not equipped with a residual current circuit breaker, this can lead to serious injury from electric shocks, particularly in the event of insulation faults or short circuits.

- Equip the machine's power supply with a fault-current circuit breaker.

2.7.2 Adjustments and tool changes, operation

Improper adjustment and setup

The operational safety of the machine is only guaranteed if the settings and set-up work are carried out correctly. People could be seriously injured or killed. ➔ *'Incorrect operation of the machine' on page 7*

- Before commencing any work with the machine, inspect it to ensure that it is complete and in technically good condition.
- Replace damaged chip bags immediately. Only use undamaged and airtight chip bags.
- Replace damaged filters immediately. Only use undamaged filters.

Incorrect operation

Improper operation, such as dust extraction for the wrong materials, overfilling chip bags or inhaling harmful dust, can lead to serious injury or potential consequential damage.

- Only use dust extraction to extract substances described as suitable in the operating instructions. ➔ *'Suitable materials (suitable in terms of safety)' on page 5*
- Do not suck in any materials that could produce sparks (e.g. nails, screws) or sources of ignition (e.g. cigarette ends, flames).
- Do not operate the machine without the extraction connected.

Does not comply with technical limits

If the technical limits of the machine are not complied with, people could be seriously injured or killed.

- Comply with limit values according to technical data. ➔ *Chapter 3 'Technical information' on page 9*
- Technical limit values include: speed, tool diameter, workpiece dimensions, load capacities, ambient temperature etc.

Tool movements due to air flow of the extraction unit

The air flow of extraction systems can cause tools to rotate. Contact with the tools can therefore cause severe bruising or severed limbs.

- Switch off extraction system before setup processes and maintenance works.
- Wait for all parts to be still.

2.7.3 Maintenance and troubleshooting

Incorrect maintenance

The operational safety of the machine is only guaranteed with professional maintenance work and troubleshooting. Failure to follow the instructions may result in serious personal injury and material damage. ➔ 'Incorrect operation of the machine' on page 7

- Maintenance technicians need to be fully aware of how the machine operates and moves, and they must be familiar with the exact operating sequence.
- Whilst maintenance work is being carried out, secure the area around the machine.
- Whilst maintenance work is being carried out, put up a sign that states "Machine under maintenance".
- To ensure quick and unmistakable communication, visual contact with the operators must be kept at all times.
- Operators should repeat and confirm instructions before they are carried out.
- Properly reinstall all components after the maintenance work and check functionality.
- As part of the machine maintenance, the whole machine, including the safety devices, must be checked regularly for damage.
- Keep a record of all maintenance work.

Handling of equipment and auxiliary materials

Improper handling of equipment and auxiliary materials can cause serious injury or death.

- Observe the manufacturer's safety data sheets.
- Store equipment and auxiliary materials in a secure, locked area.
- Store equipment and auxiliary materials in their original containers.
- Wear personal protective equipment.
- Do not breathe in fumes.
- Avoid skin contact.
- Do not swallow equipment or auxiliary materials.
- Dispose of equipment and auxiliary materials in accordance with regulations.

Incorrect rectification of malfunctions

Incorrect rectification of malfunctions will impair operational safety. People could be seriously injured or killed.

- Wait for all moving parts to come to a standstill.
- Disconnect machine from all power sources and secure against restarting.

The use of incorrect or faulty spare parts

Spare parts that do not meet the manufacturer's requirements may impair safety-relevant functions and jeopardise the operational safety of the machine. People could be seriously injured or killed.

- Only use authorised, approved spare parts approved by the manufacturer.
- If in doubt, obtain authorisation from the dealer or manufacturer.
- Only use technically perfect spare parts.
- Safety-related spare parts may only be installed, exchanged and tested by authorised qualified personnel in accordance with the manufacturer's instructions.
- See spare parts list.

3 Technical information

3.1 Dimensions and weight

AF 14

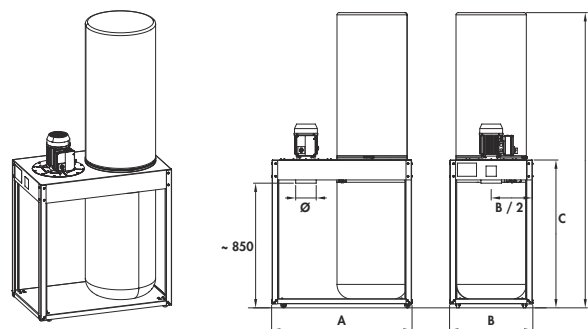


Fig. 1: Dimensions and weight

Data	Value	Unit
Total length (A)	960	mm
Total width (B)	570	mm
Working height (C)	1010	mm
Total height (D)	2015	mm
Extraction connection diameter (Ø)	140	mm
Weight	40	kg

AF 16

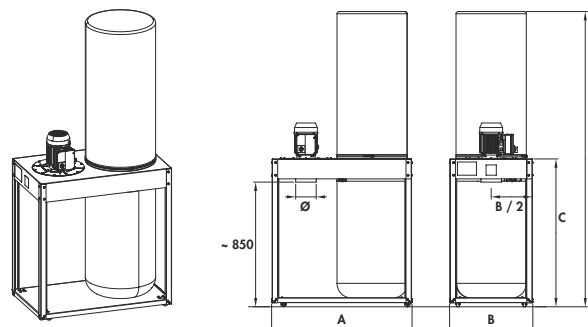


Fig. 2: Dimensions and weight

Data	Value	Unit
Total length (A)	982	mm
Total width (B)	570	mm
Working height (C)	1057	mm
Total height (D)	2063	mm
Extraction connection diameter (Ø)	160	mm
Weight	52	kg

3.2 Filter bag

AF 14

Data	Value	Unit
Filter surface area	1.7	m ²
Polyester fleece	350	g/m ²
air permeable at	3240	m ³ /h

Data	Value	Unit
air permeable at	2	mbar
air permeable at	200	Pa

→ Chapter 4.4 'Wear and tear parts' on page 12

AF 16

Data	Value	Unit
Filter surface area	1.7	m ²
Polyester fleece	350	g/m ²
air permeable at	3240	m ³ /h
air permeable at	2	mbar
air permeable at	200	Pa

→ Chapter 4.4 'Wear and tear parts' on page 12

3.3 Chip bag

AF 14 / AF 16

Data	Value	Unit
Bag diameter	480	mm
Chip bag capacity	200	litre

→ Chapter 4.4 'Wear and tear parts' on page 12

3.4 Electrical connection



For electrical data, see enclosed wiring diagram.

The actual values of the components can be found on the nameplate.

Requirements of the electrical connection:

- The machine must be earthed with electrical conductors.
- For the RCCB circuit breaker, see the circuit diagram.
- The voltage fluctuations in the mains supply may not exceed $\pm 10\%$.
- For protection and trip characteristics, see the circuit diagram.
- For the connection cable, see the circuit diagram.
- The power supply cable must be protected against damage (e.g. armoured conduit).
- The power supply cable must be laid in such a way so that it does not bend or chafe and that there is no trip risk.

3.5 Drive motor



For electrical data, see enclosed wiring diagram.

The actual values of the components can be found on the nameplate.

AF 14

Data	Value	Unit
Motor voltage	1 x 230	V

Data	Value	Unit
Motor voltage (Option)	3 x 230	V
Motor voltage (Option)	3 x 400	V
Motor frequency	50 / 60	Hz
Motor power S ₆ -40 % *)	1.8 / 1.5	kW
Protection class	IP 54	
Fuse protection	see electrical diagram	

*) S₆ = operation under load and intermittent service; 40 % = relative operating factor

AF 16

Data	Value	Unit
Motor voltage	1 x 230	V
Motor voltage (Option)	3 x 230	V
Motor voltage (Option)	3 x 400	V
Motor frequency	50 / 50 / 60	Hz
Motor power S ₆ - 40% *)	3.0	kW
Protection class	IP 54	
Fuse protection	see electrical diagram	

*) S₆ = operation under load and intermittent service; 40 % = relative operating factor

3.6 Performance diagram

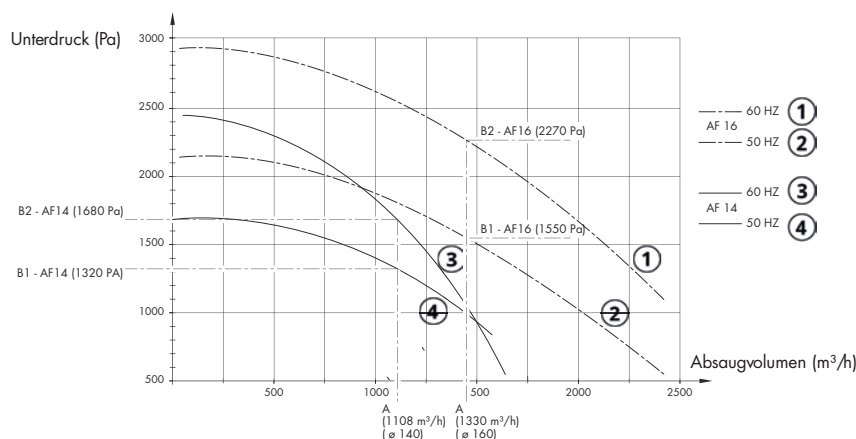


Fig. 3: AF 14 / AF 16 Performance diagram

AF 14

Data	Value	Unit
Extraction connection diameter	140	mm
Nominal air flow rate (A)	1108	m³/h
Negative pressure (50 Hz) (B1)	1320	Pa
Negative pressure (60 Hz) (B2)	1680	Pa

AF 16

Data	Value	Unit
Extraction connection diameter	160	mm
Nominal air flow rate (A)	1330	m³/h
Negative pressure (50 Hz) (B1)	1550	Pa
Negative pressure (60 Hz) (B2)	2270	Pa

3.7 Operating and storage conditions

Data	Value	Unit
Operating/room temperature	+10 to +40	°C
Storage temperature	-10 to +50	°C
Air humidity (non-wetting)	90	%
Minimum cross-sectional area for exhaust air	0.25	m²

When positioning the machine in a room other than the workshop, please ensure there is ample ventilation, e.g. provided through an extractor fan.

3.8 Noise emissions**Basic standards and measurement methods**

If the stated noise emission values are to be checked, then the measurements must be taken following the same procedure and in the same operating and installation conditions as described. The measurements are carried out in accordance with the following standards:

Measuring conditions / additional information according to Machinery Directive 2006/42/EC

with ISO 11202:2010 for the emission sound pressure at accuracy class 3

Note: It was not possible to measure the sound level $L_p(A)$ with accuracy class 2 because background noise could not be reduced.

WARNING: The noise emission values stated are only valid, when the same operating and installation conditions apply.

Other operation and installation conditions, e.g. a different work process, can lead to higher noise emission values with the danger of underestimation.

WARNING: The noise emission values stated are not exposure level values.

Although there is a correlation between emission and exposure levels, the emission values can not be used to reliably determine whether increased safety measures are required.

Factors that influence the actual degree of exposure are the actual work process, the exposure time, the characteristics of the workplace and other neighbouring noise sources in the workshop.

Noise emission values

Specification of noise emission values in two-number form according to ISO 4871:1996

Tab. 1: Noise emission values 50 Hz, AF 14

A-weighted emission sound pressure level L_{pA} in dB	79
Uncertainty K_{pA} in dB	4

Tab. 2: Noise emission values 50 Hz, AF 16

A-weighted emission sound pressure level L_{pA} in dB	82
A-weighted sound power level L_{WA} in dB	98
Uncertainty K_{WA} / K_{pA} in dB	4

Tab. 3: Noise emission values 60 Hz, AF 14

A-weighted emission sound pressure level L_{pA} in dB	87
A-weighted sound power level L_{WA} in dB	103
Uncertainty K_{WA} / K_{pA} in dB	4

Tab. 4: Noise emission values 60 Hz, AF 16

A-weighted emission sound pressure level L_{pA} in dB	84
A-weighted sound power level L_{WA} in dB	100
Uncertainty K_{WA} / K_{pA} in dB	4

Warning: Due to the impact of the dust and chips transported against the walls of the extraction system, the noise level can increase by up to 10 dB or more when compared to measuring the noise level when no chips or dust is being extracted.

4 Machine overview

4.1 Overview control elements

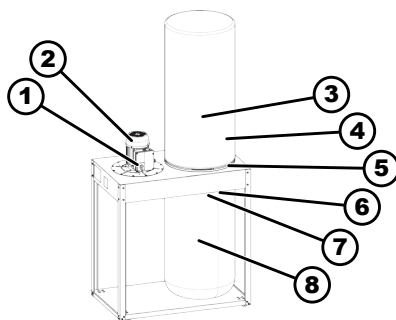


Fig. 4: Machine overview

- 1 Main switch
- 2 Motor
- 3 Filter bag
- 4 Bag rod
- 5 Ratchet strap
- 6 Clamping frame
- 7 Snap fastener.
- 8 Chip bag

4.2 Pictograms, signs and labels

All the pictograms, signs and labels affixed to the machine must be kept visible, readable and must not be removed.

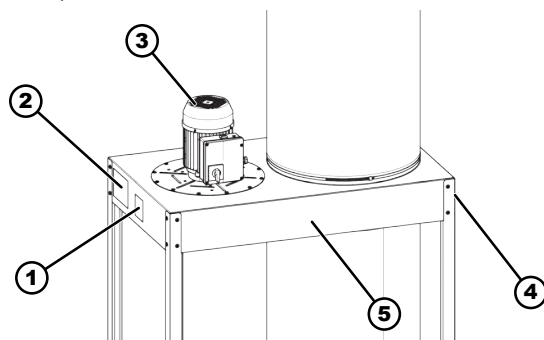


Fig. 5: Pictograms, signs and labels

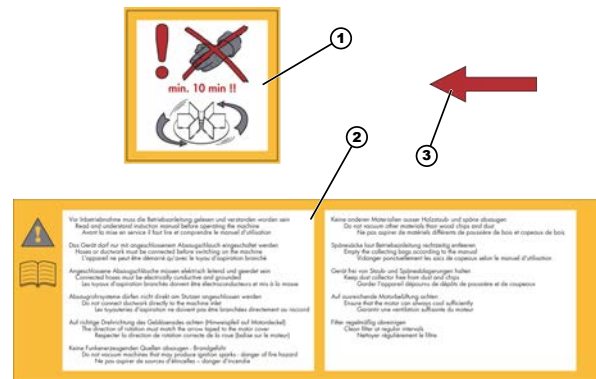


Fig. 6: Overview of pictograms, signs and labels

- 1 Warning: rotating fan impeller
- 2 Warning: Dust extractors
- 3 Attention Fan impeller rotation direction
- 4 Data plate
- 5 Brand logo

4.3 Information on the machine data plate

Felder KG KR-Felder-Strasse 1, A-6060 HALL in Tirol felder-group.com, info@felder-group.com +43 5223 58500, Fax +43 5223 56130				1
TYPE :				CE UK CA
NR.:		Code:		
V:	PH:	HZ:	A:	
KW:				
Baujahr / year of construction / ANNEE DE CONSTR.:				5
				6

Fig. 7: Machine data plate

- 1 Manufacturer information
- 2 Model type
- 3 Serial number
- 4 Electrical connection
- 5 Year of construction
- 6 Additional information (optional)

4.4 Wear and tear parts

200-litre chip bags (Item No. 02.1.015 – 10 pcs.)

Replacement filter bag (Item No. 02.1.127)

5 Transporting, packing, storing

5.1 Transport inspection

1. Upon arrival, inspect the shipment to ensure that it is complete and has not suffered any damage.
2. If any transport damage is visible from the outside, do not accept the delivery or only accept it with reservation.
3. Record the scope of the damage on the transport documents/hauliers delivery note.
4. Initiate the complaint process.
5. Any defects that are not discovered upon delivery, must be reported immediately once they have been identified as damage claims are only valid if claimed within the valid complaint period.

5.2 Packaging

If no agreement has been made with the supplier to take back the packaging materials, help to protect the environment by reusing the materials or separating them according to type and size for recycling.

When using overseas transport the machine must be tightly packed and protected from corrosion. Use desiccant.

Environmental protection

Packaging materials are valuable raw materials and in many cases they can be used again, reprocessed or recycled.



ENVIRONMENT

Dispose of the packaging in an environmentally friendly manner

- Dispose of packaging materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.
- Contract a recycling company.

5.3 Machine transport

Transportation of the appliance on rollers

Protective equipment additionally required:

- Protective footwear
- Protective clothing

The machine is delivered disassembled in a cardboard box, without a pallet.



CAUTION

Improper transport

Injuries and property damage

- Consider the centre of gravity of the machine.
- Only move the machine by its base to prevent it from tipping over.

→ Move and position the machine using the swivel and fixed rollers.

5.4 Storage

Keep items sealed in their packaging until they are assembled/installed and be sure to observe the stacking and storage symbols on the outside of the packaging.

storage conditions

- Do not store outdoors.
- Store in a dry and dust-free environment. Use desiccant if necessary.
- Protect from direct sunlight.
- Avoid mechanical vibration.
- Avoid extreme temperature fluctuations (condensation build-up).
- Apply a coat of oil to all exposed machine parts (corrosion protection).
- Regularly check the general condition of all parts and the packaging during longer storage (> 3 months). If necessary, refresh or re-apply the coat of anti-corrosive agent.

6 Setup and installation

6.1 Space requirement

Requirements of the location, where the machine is to be installed

A dry, enclosed room.

Adequate ventilation e.g. to enable ample air circulation for the machine cooling system.

The working area must have an adequate load-bearing capacity and stability and the walls must be stable.

Even floors without a slope.

Sufficient lighting of the working area.

Sufficient clearance or screening from neighbouring workstations.

When positioning the machine in a room other than the workshop, please ensure there is ample ventilation, e.g. provided through an extractor fan.

6.2 Assembly

6.2.1 Assemble the machine

Assemble the machine

Tool:

- Ring spanner 8 mm
- Ring spanner 10 mm
- Cordless screwdriver
- Star screw TX 25
- Star screw TX 25



NOTICE

Damage to the machine caused by heavy chip bags

Material damage

- Filled chip bags are heavy and could lead to damage to the machine and / or to the wall fittings. That's why the attached chip bags must stand on the floor or on the metal floor of the rolling carriage.

1. → Screw the swivel castors to the floor panel using bolts and nuts.
2. → Screw the castors to the floor panel using screws and nuts.

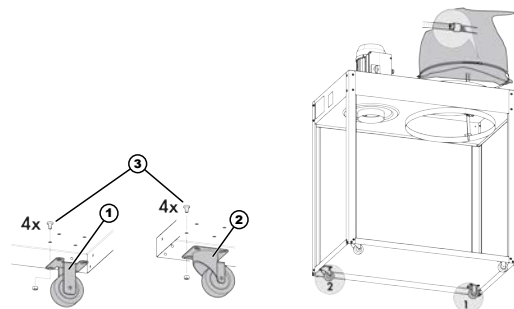


Fig. 8: Fitting swivel castors / fixed castors

3. → Screw the posts onto the base plate using the screws.
4. → Fit the extraction unit to the posts using the screws.

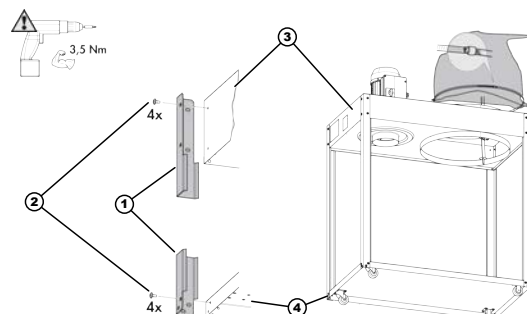


Fig. 9: Mount the upright

5. → Thread the bag-holding rod through the slits.

6. → Secure the bag support bar with the locking screw and lock nut.



Fig. 10: Fitting the bag holder rod

- 1 Bag rod
- 2 Screws
- 3 Nut
- 4 Slots
- 5 Dust collector

7. → Fit the filter and chip bag.

→ Chapter 6.2.2 'Mount the filter' on page 14
 → Chapter 7.1 'Fitting and replacing the chip bag' on page 14

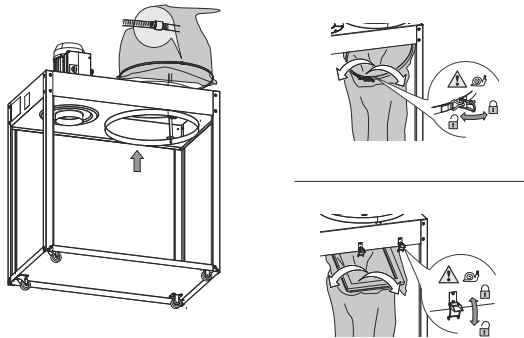


Fig. 11: Fitting the filter / chip bag

6.2.2 Mount the filter

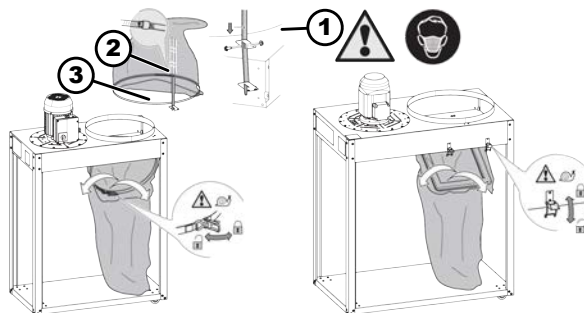


Fig. 12: Mount the filter

- 1 Bag rod
- 2 Filter bag
- 3 Ratchet strap

Personnel:

- Trained machine operator

Protective equipment additionally required:

- Dust protection mask

Material:

- Replacement filter bag (Item No. 02.1.127)



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
→ Chapter 2.6 'Personal protective equipment' on page 7
- Check that there are no other persons in the immediate vicinity of the machine.

1. → Thread the bag-holding rod through the slits.
2. → Fit the locking screw with the lock nut.
3. → Place the filter bag over the rod and affix with a strap.
4. → Position the filter bag seams on the inside.

OK Internal seams on the filter bag

NOK External seams on the filter bag

Filter performance impaired

→ Position the filter bag seams on the inside.

- ➔ Due to the structural design of the filter bag, optimum filtration performance is achieved when the seams are positioned on the inside.

6.3 Initial start-up check

Check before initial start-up

→ The following steps were checked prior to initial start-up.

OK The screw connections have been tightened.

The brakes on the rollers are in working order.

The filter has been fitted correctly, with the seams facing inwards.

The chip bag is fitted correctly and rests on the floor of the machine.

A flexible connecting element has been fitted between the extraction pipework system and the extraction connection.

Extraction hoses are electrically conductive and grounded.

The rotation direction of the fan impeller has been checked to ensure that it matches to the direction indicator.

A test run was carried out without any materials.

A visual inspection was carried out after a short period of operation.

NOK Unusual noises or vibrations.

Leaks or excessive heating.

1. → Check dust extractor.

2. → Ensure that the motor is adequately cooled.

7 Adjustments and tool changes

7.1 Fitting and replacing the chip bag

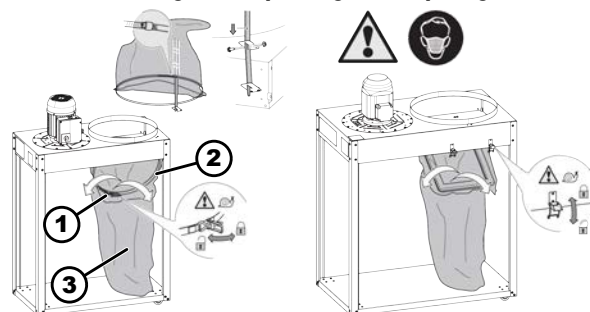


Fig. 13: Chip bag assembly

- 1 Snap fastener.
- 2 Clamping frame
- 3 Chip bag

Personnel:

- Trained machine operator

Protective equipment additionally required:

- Dust protection mask

Material:

- 200-litre chip bags (Item No. 02.1.015 – 10 pcs.)



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
➔ Chapter 2.6 'Personal protective equipment' on page 7
- Check that there are no other persons in the immediate vicinity of the machine.
- The appliance must not be operated without chip bags (except rotary valves option).
- All chip bags must always be inserted in the appliance.
- Only use undamaged chip bags.



NOTICE

Full chip bags

Material damage

- Empty the chip bag when the level of shavings in the chip bag reaches 150 mm below the fastening edge.
- Filled chip bags are heavy and could lead to damage to the machine.
- Place the fitted chip bags on the floor of the equipment compartment.

- ➔ Switch off the device and wait for the ventilator to come to a halt.
- ➔ Loosen clamps.
- ➔ Empty chip bag.
- ➔ Check the chip bag for damage and replace if necessary.
- ➔ Guide the empty chip bags through the clamping frame.
- ➔ Flip clamping frame up.
- ➔ Fasten clamping frame with clamps.

8 Operate

8.1 Prepare the machine for operation

- ➔ Check chip bags for correct fit and fill level.
- ➔ Ensure that all covers are closed and tight.
- ➔ If available: Secure castors with brakes.
- ➔ Check the extraction pipes.
- ➔ Clean the filter. ➔ Chapter 8.3 'Clean the filter' on page 15
- ➔ Check the machine and dust filter for damage and soiling.
➔ The machine is ready to operate.

8.2 Switch on / switch off / shutdown due to an emergency stop



WARNING

Insufficient preparation

Severe injuries and damage to property

- Do not start the machine until all prerequisites have been met and all preparatory work has been completed.
- Read the instructions for setup, adjustment and operation before turning on the machine.

- ➔ Before operating the machine for the first time, inspect it for defects.
- ➔ If a power failure occurs, switch off the main switch (position „0“). This avoids the machine restarting once the power is back on.

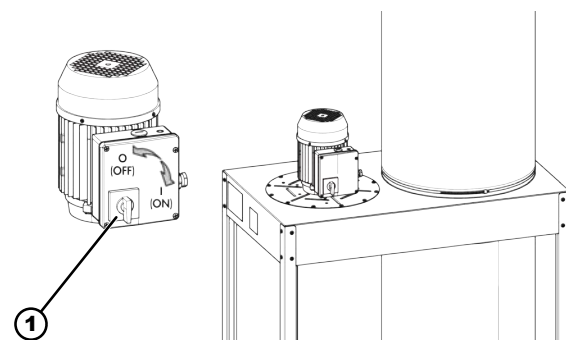


Fig. 14: Main switch

1 Main switch

Switch on

➔ Switch on the main switch ("I" position).

Switch off / Emergency stop

➔ Switch off the main switch (position "0").

Prolonged downtime

- ➔ Empty chip bag.
- ➔ Pull out the mains plug.

8.3 Clean the filter

Personnel:

- Trained machine operator

Protective equipment additionally required:

- Dust protection mask



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
➔ Chapter 2.6 'Personal protective equipment' on page 7
- Check that there are no other persons in the immediate vicinity of the machine.

**Note**

Cleaning and care products are available as accessories (see: Tools and accessories catalogue / Online shop: www.felder-group.com).

1. ➔ Switch off the machine (set to '0').
2. ➔ Tap the filter all round the sides so that the accumulated dust and shavings fall down into the chip bag.

The degree to which the filter is clogged has a significant impact on the airflow capacity of the extraction unit.

The filter must be cleaned before each change of chip bag, but at the latest as soon as the airflow capacity drops noticeably.

Only clean the appliance when it is switched off.

If the filter is no longer cleaning effectively, exchange it.

Replace damaged filters immediately.

➔ Chapter 9.3 'Change the filter' on page 17

9 Maintenance

9.1 Maintenance schedule

Chap.	Task to execute	Weekly	Monthly	If required	Page
7.1	Fitting and replacing the chip bag			X	14
9.2	Clean machine thoroughly	X			17
9.2	Clean the machine as and when necessary			X	17
9.3	Change the filter			X	17
9.4	Check the motor		X		17
9.5	Empty chip bag			X	17

9.2 Clean the machine



Cleaning and care products are available as accessories (see: Tools and accessories catalogue / Online shop: www.felder-group.com).

Clean machine thoroughly

Personnel:

- Trained machine operator

Protective equipment additionally required:

- Dust protection mask
- Safety goggles

Tool:

- Cleaning cloths
- Resin remover
- Vacuum cleaner

1. Switch off the machine (set to '0').
2. Wait until the fan impeller stops.
3. Remove filter.
4. Clean chips and sap residue off the fan wheel.
5. Prepare the machine for operation.

Clean the machine as and when necessary

Clean dust and shavings from the machine.

9.3 Change the filter



The filter must be replaced at the latest when the airflow capacity starts to decline or when the chip bag needs changing.



Cleaning and care products are available as accessories (see: Tools and accessories catalogue / Online shop: www.felder-group.com).

- Replace the filter.
→ Chapter 6.2.2 'Mount the filter' on page 14

9.4 Check the motor



Cleaning and care products are available as accessories (see: Tools and accessories catalogue / Online shop: www.felder-group.com).

Check the motor fan cowl for dirt and clean it if necessary.

9.5 Empty chip bag



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
→ Chapter 2.6 'Personal protective equipment' on page 7
- Check that there are no other persons in the immediate vicinity of the machine.



Empty the chip bag at the very latest when the chips reach a level approximately 150 mm below the attachment edge. In the event of damage to the collection bag, the bag must be replaced immediately! The chip bag must only be replaced when the machine is switched off.

- Empty the chip bags and replace them if necessary.
→ Chapter 7.1 'Fitting and replacing the chip bag' on page 14

10 Resolving emergencies and faults

10.1 Procedure in case of fire

Procedure in case of fire

1. Disconnect the machine from all energy supplies.
→ The machine stops immediately.
2. Call the fire brigade.

10.2 What to do if dust escapes from the appliance

Avoid exposing people to dust. Carry out a visual check to ensure that all filters are correctly inserted and that there are no leaks.

1. ➔ Switch off the machine (set to '0').
2. ➔ Check filter for correct fit and leaks.

OK The seams of the filter bag are on the inside.
The filter bag has been correctly slipped over the rod and secured with the tension strap.

NOK Filter inserted incorrectly.
Filter leaking.

1. ➔ Insert filter correctly.
2. ➔ Replace damaged filter.

3. ➔ Check the machine for leaks.

OK Dust no longer escapes from the machine.

NOK Machine leaking.
➔ Contact Felder Group service centre.

10.3 What to do in the event of malfunction



WARNING

Improper troubleshooting

Severe injuries and damage to property

- Troubleshooting may only be carried out by authorised, trained personnel who are familiar with how to operate the machine and are in strict observance of all safety instructions.

Report faults and errors on the machine, including separating safety devices and tools, as soon as they are detected.

In the event of faults involving immediate danger to persons, property or operational safety:

1. ➔ Stop the machine immediately.
2. ➔ Disconnect the machine from the mains supply.
3. ➔ Contact Felder Group service centre and solve the fault.

10.4 Check the extraction unit after rectifying the fault



CAUTION

Restarting after the motor safety switch has tripped

Personal injury

- When the motor safety switch is triggered, only switch the dust extractor on again once the cause of the problem has been found and has been eliminated.

1. ➔ The malfunction and cause of the malfunction have been professionally remedied.
2. ➔ All safety devices have been fitted in accordance with the regulations and are in perfect technical and operational condition.
3. ➔ The run of the fan impeller has been checked.
4. ➔ Remove any possible blockages from the fan impeller or the airways.
5. ➔ The motor fan has been checked for dirt and deposits and cleaned where necessary.

6. ➔ The motor has been checked to ensure it is adequately cooled.

7. ➔ Only restart the motor once the housing temperature has reached <50°C.

10.5 Faults, causes and repairs



Use original spare parts

The original spare parts that have been authorised for use are listed in a separate spare parts catalogue, enclosed in the documentation package supplied with the machine.

The following examples highlight possible undesired conditions of the machine. This list makes no claim to completeness.

This information is designed to help operators recognise faults when operating the machine and to rectify them.

Possible faults with the machine

Fault description	Cause	Remedy
The extraction performance reduces.	Filter is contaminated.	➔ Chapter 8.3 'Clean the filter' on page 15
	Filter is defective.	➔ Chapter 9.3 'Change the filter' on page 17
	Fan impeller is contaminated.	➔ Chapter 9.2 'Clean the machine' on page 17
	Chip bag is full.	➔ Chapter 7.1 'Fitting and replacing the chip bag' on page 14
Chips are escaping.	Filter is defective.	➔ Chapter 9.3 'Change the filter' on page 17
	Chip bag is defective.	➔ Chapter 7.1 'Fitting and replacing the chip bag' on page 14
The fan impeller does not run smooth.	Fan impeller is contaminated.	➔ Chapter 9.2 'Clean the machine' on page 17
Motor safety switch has been triggered.	Fault on the extraction unit.	1. ➔ Checking the dust extractor. 2. ➔ Contact Felder Group service centre.
Vibrations	Accumulation of material in the fan area.	➔ Chapter 9.2 'Clean the machine' on page 17

11 Information relating to spare parts

The use of incorrect or faulty spare parts

Spare parts that do not meet the manufacturer's requirements may impair safety-relevant functions and jeopardise the operational safety of the machine. People could be seriously injured or killed.

- Only use authorised, approved spare parts approved by the manufacturer.
- If in doubt, obtain authorisation from the dealer or manufacturer.
- Only use technically perfect spare parts.
- Safety-related spare parts may only be installed, exchanged and tested by authorised qualified personnel in accordance with the manufacturer's instructions.
- See spare parts list.

If unauthorised spare parts are fitted into the machine, all warranty, service, compensation and liability claims against the manufacturer and their contractors, dealers and representatives will be rejected.



Use original spare parts

The original spare parts that have been authorised for use are listed in a separate spare parts catalogue, enclosed in the documentation package supplied with the machine.

Spare part orders

Pos.	Teilenummer	Teilebezeichnung
1	4180	SKT SCHRAUBE M10x80 SCHWARZ
2	4046	SCHRAUBE M10
3	4010	SKT MÜLLER MIT VERBINDER
4	21440	PUSSER PFANNEN UNTERTEIL LT. Z. 75-07-130
5	2144N	PUSSER PFANNEN UNTERTEIL LT. Z. 75-07-130
6	400K	SKT MÜLLER MIT FLANSCH

Felder KG Königsfelder-Strasse 1, A-6064 HALL in Tirol felder-group.com, info@felder-group.com +43 (0) 3565 58500, Fax +43 (0) 3523 54130	
TYPE: XXXXX0000	Code: XXXX
NRL: XXXXX000000	CE UK CA
V: XXX	Ph: X
KW: X.X	SK: XXX
Baugjahr / year of construction / ANNÉE DE CONSTR. 20xx	

Fig. 15: Spare parts list / data plate

- Model type
- Serial number
- Article number
- Article description

The following information is required when ordering spare parts:

- Type description and serial number as per identification plate
- Article number, article description and required quantity
- Shipping address
- Shipping mode (mail, freight, sea, air, express)

Orders for spare parts, which do not include the required details, will not be processed. Unless specific dispatch instructions are given, the manufacturer / supplier standards shall apply.

12 Disposal

12.1 Dispose of separated goods

- Dust and chips are collected in the collection containers during the extraction process.
- Only a total volume of 500 litres of dust may be stored.
- The use of sealable disposable filling bags enables low-dust disposal. Observe the notes on disposal in the operating instructions.



WARNING

Breathing in dust

If inhaled, dust can cause respiratory diseases and lung damage. Certain types of dust, such as hardwood dust, can be carcinogenic.

- When working with carcinogenic dusts, wear respiratory protection with a particle filter offering $\geq 99.95\%$ filtration efficiency.
e.g. P3 or N100 / P100
➔ Chapter 2.6 'Personal protective equipment' on page 7
- Check that there are no other persons in the immediate vicinity of the machine.

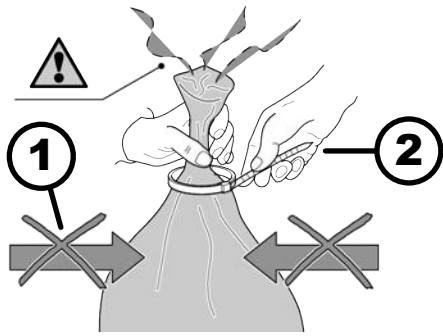


Fig. 16: Dust hazard prevention

- 1 Do not compress the chip bag.
- 2 Close chip bag tightly.
1. → Open the tension fastener.
2. → Remove the full chip bag. ➔ Chapter 7.1 'Fitting and replacing the chip bag' on page 14
3. → Carefully loosen the top edge of the plastic bag, twist it together several times and seal it tightly with a cable tie.
4. → Dispose of the sealed chip bag in accordance with local regulations.

12.2 Disposal



ENVIRONMENT

Disposal of machine components

Used electrical materials, electronic components, lubricants and other auxiliary substances must be treated as special waste and may only be disposed of by specialised, licensed firms.

The machine consists of many different materials for which different disposal conditions may apply depending on national legislation.

1. → Separate all machine components into material groups.
2. → When disposing, pay attention to international regulations, standards and environmental protection norms.

13 Declaration of Conformity

EU-Declaration of Conformity



EU-Declaration of Conformity according to Machine Guidelines 2006/42/EC

Note on the serial number:

The serial number is printed on the cover sheet of the operating manual.

We hereby declare that the machine indicated below, which corresponds to the design and construction of the model we placed on the market, conforms with the health and safety requirements as stated by the EU guidelines (see table).

Manufacturer	FELDER KG KR-Felder-Straße 1 6060 Hall in Tirol, AUSTRIA
Product designation	Raw air extraction unit
Brand	Felder
Model type	AF 14 AF 16
The following EU guidelines were applied	2006/42/EC 2014/30/EC

This EU-Declaration of Conformity is valid only if the CE label has been affixed to the machine. Modifying or altering the machine without the express written agreement of the manufacturer shall render the warranty null and void. The signatory of this statement is the appointed agent for the compilation of the technical information.

Prof. h. c. Ing. Johann Georg Felder
CEO FELDER KG
KR-Felder-Straße 1, 6060 Hall in Tirol, AUSTRIA
Date: 01.10.2025

	Declaration of Conformity according to UK Directive S.I. 2008/1597 Note on the serial number: The serial number is printed on the cover sheet of the operating manual.
---	---

We hereby declare that the machine indicated below, which corresponds to the design and construction of the model we placed on the market, conforms with the health and safety requirements as required by the following UK guidelines (see table).

Manufacturer	FELDER KG KR-Felder-Straße 1 6060 Hall in Tirol, AUSTRIA
Product designation	Raw air extraction unit
Brand	Felder
Model type	AF 14 AF 16
The following UK guidelines were applied	S.I. 2008/1597 - Supply of Machinery (Safety) Regulations 2008 S.I. 2016/1091 - Electromagnetic Compatibility Regulations 2016

This Declaration of Conformity is only valid if the UKCA label is affixed to the machine. Modifying or altering the machine without the express written agreement of the manufacturer shall render the warranty null and void. The signatory of this statement is the appointed agent for the compilation of the technical information.



Prof. h. c. Ing. Johann Georg Felder
CEO FELDER KG
KR-Felder-Straße 1, 6060 Hall in Tirol, AUSTRIA
Date: 01.10.2025

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