



makes a difference

**Translation of the Original Operating Manual
ID 265/55 Afc**



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Kärcher Industrial Vacuuming GmbH
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GERMANY

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1 Safety Instructions

1.1 Terms

1.1.1 Operation

includes installation, initiation (placing at disposal for usage), operation (handling, connection, disconnection, etc.)

1.1.2 Maintenance

includes control and attendance (inspections, revisions), maintenance and repair (detection of errors and their elimination).

1.1.3 Qualified Staff

are employees authorised by the person responsible for the security of the installation to carry out the operations required in each case and who are able to recognise and avoid possible dangers by reason of their training, experience and instructions as well as their knowledge of relevant norms, prescriptions, accident-prevention rules and working conditions.

1.2 Symbols

NOTICE

Denotes information that does not relate to personal injuries.
This information contains additional directions or general hints.



CAUTION

Dangerous situation, which could result in minor to moderate injury if it is not avoided.
This information must be regarded strictly to avoid damages to the installation or environment!



WARNING

Dangerous situation, which could result in serious injury or death if it is not avoided.



DANGER

Dangerous situation, which will definitely result in serious injury or death if it is not avoided.



Significance of the Operating Manual

This Operating Manual is part of the supplied product.

The Operating Manual remains valid throughout the product's lifetime, provided that no technical changes are made.

If the product is sold, the Operating Manual must be handed over to the next owner or user.



This information must be read before first commissioning.



WARNING - Read the instructions before using the machine



CE marking

The CE marking means "Communautés Européennes". It is the external symbol which states

Safety Instructions

	that a product fulfils the requirements imposed on the manufacturer by the European Community.
	Only use with safety shoes (acc. to EN ISO 20345)
	Only use with work gloves
	Respiratory protection (EN 149:2001)
	Use protective clothing (acc. to EN 13982-1)
	Use protective glasses (acc. to DIN EN 166 1349-BT)
	Before starting work <i>remove the plug from the wall socket!</i>
	Disconnect before starting work
	While operating electrical machines, certain parts of them are inevitable alive dangerously or under mechanical stress.
	Hand injury warning sign!
	Recycling symbol This information must be observed in order to preserve the environment!

1.3 General safety information**WARNING**

While operating electrical machines, certain parts of them are inevitable alive dangerously or under mechanical stress.

- Due to their electrical and mechanical functional properties, machines can cause severe injuries and damage to property. This particularly applies in the event of incorrect use, operation or maintenance, or in the event of unauthorized interventions!
- All electrical work must be performed by a qualified electrician. All mechanical work must be carried out according to instructions (see Maintenance / Repair). The device may be operated only by qualified personnel who have read and understood the operating instructions.
- The operator must be provided with information, instructions and training on the materials to be absorbed, including a secure procedure for removal of the absorbed material, before use.
- All notes and data on the machines must be observed!
- Faultless and safe use of this machine includes correct transport and storage, as well as operation in accordance with regulations and careful maintenance!
- This device is not intended for being used by persons (including) with limited physical, sensory or mental skills or lack of experience and/or lack of knowledge except if they are supervised by a person responsible for their safety or were instructed in how to use the device by this person. Children should be supervised to ensure that they do not play with the device.
- Operation of the device is only permitted on underground sloping no more than 10° and with sufficient load-bearing capacity.

**CAUTION**

Only use with safety shoes (acc. to EN ISO 20345)

- Do not place any limbs between parts to be joined during assembly of the machine parts. When moving the parts, pull limbs from tightening spaces in time.
- Make sure that the power supply cord is not damaged by being run over, crushed, tugged etc.. Stop the industrial vacuum cleaner immediately if necessary!
- The power supply cord must be regularly inspected for signs of damage or ageing!
- Connectors of power supply cords must at least be splash-proof!
- Starting without a filter or with a damaged filter is not allowed
- The suction device must not be operated if wear is detected on fasteners or mounting brackets. Please arrange for a service immediately, or send the industrial vacuum cleaner for repair to:

Kärcher Industrial Vacuuming GmbH

Abt. Service

Robert-Bosch-Straße 4-8

73550 Waldstetten

Tel: +49(0)7171-94888-523

Delivery, internal transportation, unpacking

2 Delivery, internal transportation, unpacking

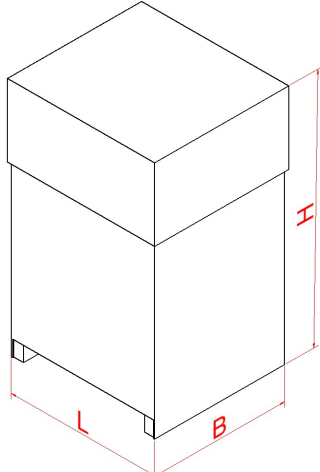
2.1 Delivery

Unload the scope of delivery on level ground with sufficiently sized industrial trucks.

2.2 Internal transport

Transport scope of supply to the site of setup secured against movement or tipping with a sufficiently sized industrial truck.

2.2.1 Dimensions and weight



	Packaging			
Type	D 3 kW		D 5.5 kW	
	Pallet 1	Pallet 2	Pallet 1	Pallet 2
L (mm)	1200	1200	1200	1200
B (mm)	1200	1400	1200	1400
H (mm)	1300	1600	1300	1600
Weight with packaging (kg)	125	370	125	380

2.3 Unpacking

Make sure that no components are left in the packaging.

Scope of delivery: -Suction device
 -Technical Manual

2.4 Packaging material

The packaging materials must be disposed of in accordance with the valid legal requirements.

Correct disposal of this product (electrical waste) (applicable in the countries of the European Union and other European countries with a separate collection system)

The identification on the product and on the associated literature states that it must not be disposed of along with normal domestic waste at the end of its service life. Please dispose of this device separately from other waste, in order to prevent damage to the environment or to human health through uncontrolled waste disposal. Please recycle this device, in order to promote sustainable re-use of material resources. Private users should contact the dealer from whom they purchased the product or the competent authorities, in order to find out how they can recycle the device in an environmentally-friendly manner. Commercial users should contact their supplier. This product must not be disposed of along with other commercial waste.



Recycling symbol

This information must be observed in order to preserve the environment!

2.5 Storage conditions

2.5.1 Information for storage

Should the industrial exhauster not be operated for a longer period of time, so it has to be stored in dry, dust and vibrationless rooms.

Temperature T: -10...+40°C

Humidity: max. 85%

Appliance description

3 Appliance description

3.1 Intended Use

NOTICE

- This plant, which is delivered in assemblies, is designed as a *dry vacuum cleaner* for commercial and industrial applications e.g. in hotels, schools, hospitals, factories, shops, offices and rent transactions. It is particularly suitable for vacuuming up *dust*.
- Dedusting units are suitable for connection to dust-generating machines.
- Caution! This device is only meant for dry application and must not be used or stored outdoors under wet conditions!
- The machine may only be operated when all filters installed correctly and undamaged.



WARNING

3.1.1 Dust class "M"



Observe warning sign on the device!

- Dust class **"M"** contains dust class **"L"**.
- The device is suitable for dusts hazardous to health and not flammable with workplace limit **≥0.1mg/m³** according to **dust class M** (max. permeability <0.1%) according to DIN EN 60335-2-69 Annex AA:2010.

3.2 Non-Intended Use

NOTICE

- For all personal injuries and material damages, which are caused by a not -asdirected- use, the operator and not the manufacturer of the machine is responsible for !
- May not be used outdoors!



WARNING

- This device is **not suitable** for taking up and extracting **combustible dusts**.
- This device is **not suitable** for taking up and extracting **flammable liquids (flammable, highly flammable, highly flammable hazardous substances according to Directive 67/548/EEC)** (Flash Point under 55°C) as well as **mixtures of combustible dusts with flammable liquids**.
- The vacuum cleaner is *not* approved for operation in potentially explosive areas!



DANGER

- With improper use may cause explosion and fire!

3.2.1 Dust class "M"



Observe warning sign on the device!

- The device is **not suitable** for **dust class H**.
- The device is **not suitable** for **carcinogenic hazardous substances** purs. to **GefStoffV §10, TRGS 905 or TRGS 906**.
- The device is **not suitable** for **asbestos** pursuant to **TRGS 519**.

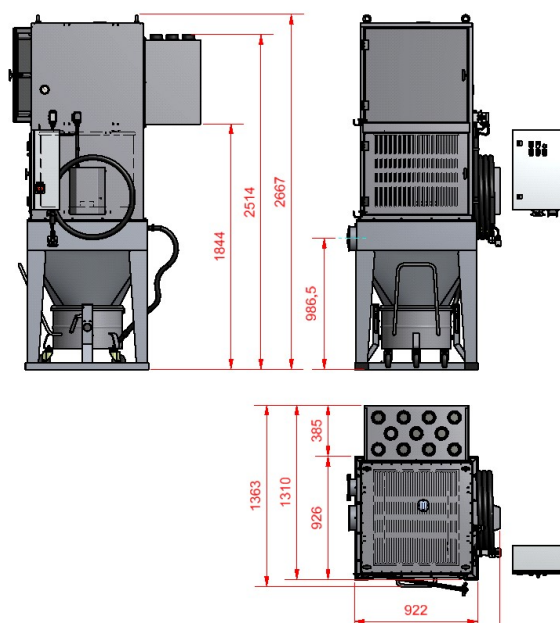
NOTICE

A device of build 22 is needed to extract flammable dust!

4 Layout and function

4.1 Main dimensions

Kärcher industrial vacuum cleaners and suction systems designed as stationary models are supplied in components and assembled on site.



4.2 Technical Data

	/30	/55
Typical operating weight	ca. 520 kg	ca. 512kg
Sound pressure level LpA Determined to EN 60335-2-69	65dB(A)	68 dB(A)
Uncertainty KpA	2dB(A)	
Protective class	I	
Ambient temperature	15°C bis +40°C	
Intake temperature medium	max. +60°C	
Installation altitude	max. 1000m over NN	

4.3 Technical Data /30 IE3

Power	3kW	3,6kW
Frequency	50Hz	60Hz
Hedging	25A	25A
Voltage/ Power consumption	400V / 5,65A Δ 690V / 3,27A Y	460V / 5,89A Δ 795V / 3,41A Y
Pressure	49,31mbar	49,31mbar
Blower Output	1200m³/h	1200m³/h
Degree of protection	IP 55	
Of efficiency	IE2-87,0%	cosφ 0,88

Layout and function

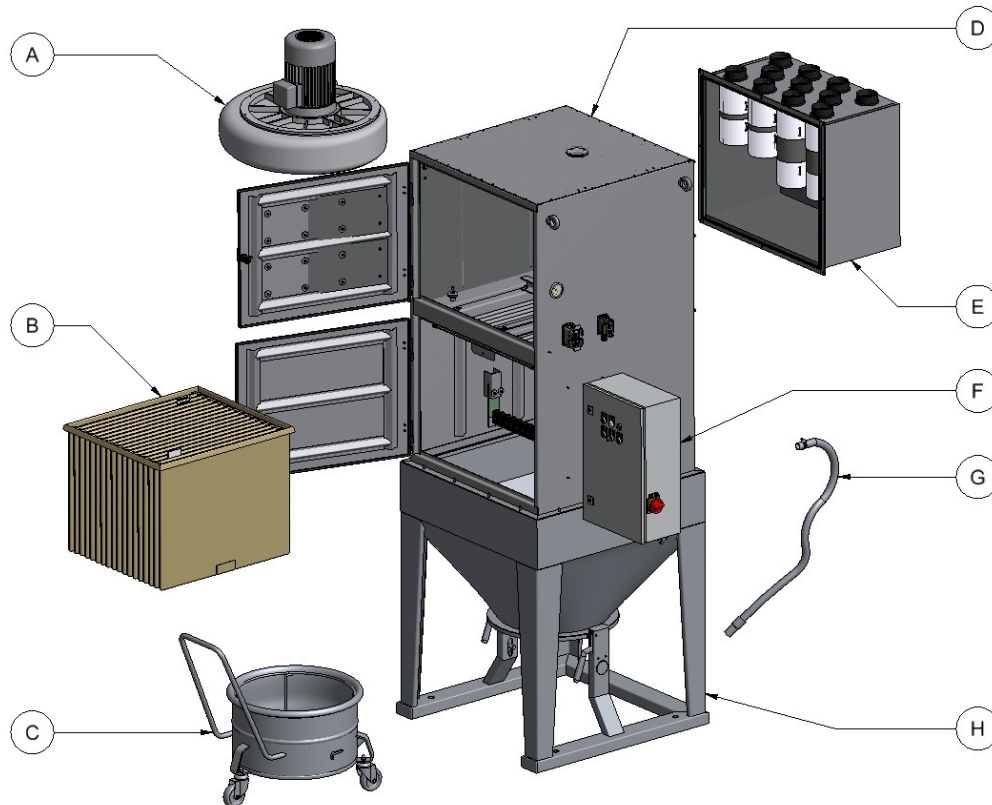
4.4 Technical Data /55 IE3

Power	5,5kW	6,6kW
Frequency	50Hz	60Hz
Hedging	25A	25A
Voltage/ Power consumption	400V / 10,1A Δ	460V / 10,6A Δ
	690V / 5,86A Y	795V / 6,11A Y
Pressure	46,75mbar	46,75mbar
Blower Output	2655m ³ /h	2655m ³ /h
Degree of protection	IP 55	
Of efficiency	IE3-64%	

If the motor runs at 60 Hz is operated must be installed to another fan.

5 Main components

5.1 Components



A	Radial blower
B	Pocket filter
C	Collection container
D	Filter and motor housing
E	Silencer
F	Control box
G	Pressure balancing hose
H	Pre-separator assembly

5.2 Functional description

A radial blower in the drive part generates a vacuum. This vacuum sucks in contaminated "raw air" at the suction socket. Heavy particles drop directly down at the input into the pre-separator. Dusts and finer particles are separated at the pocket filter. The dedusted "pure air" now flows through the radial blower to the muffler. The "pure air" returns to the working space through the individual muffler outlet hoses.

6 Initiation



Only use with safety shoes (acc. to EN ISO 20345)

6.1 Setup and Installation

- Set up the basic frame, pre-separator and collection container in the intended site and screw the basic frame to the floor.
- Place filter and motor chamber on the pre-separator, attach suitable lifting gear to the ring screws of the filter chamber if required.
- Connect the suction pipe line to the suction connection piece.
- Connect all piping parts (see **Assembly instructions pipe**). Also connect the hose to the pipeline via the wire spiral in a conductive manner (see **assembly instruction hose**).
- Perform electrical installation according to the included circuit diagrams. Connect the plant to the control cabinet in an electrically conductive manner.
- Verify the rotating direction at the radial blower and measure the power intake.
- **Throttle the system**



WARNING

- Since the radial housing must be cooled with suction air flow, at least half of the rated volume must be sucked in at all times to prevent overheating!



CAUTION

6.2 Connection to the power supply (three phase)

- The plant before commissioning its proper condition check.
- Before connecting the plant to the grid make sure, that the voltage number on the nameplate with the mains voltage conforms.
- The plant is adjusted factory-set to clockwise rotating field.
- The plant must be connected to a correctly installed 400V 3-phase power supply system. The plant must be turned off!
- The power cord periodically check for damage, cracks or cable wear.
- When replacing the power cord replace it only with one of the type that corresponds to the original line.
- The mains cable must only be replaced by a qualified electrician.
- The operator shall be responsible for installation of protective equipment that will recognise a short-circuit in case of fault and isolate all connection phases.

**WARNING****6.3 Before switching on, check:**

- that all filters are correctly adjusted;
- that the collecting tank is correctly positioned beneath the filter unit and locked.
- that the suction tube and accessories are correctly connected;
- that the PE round bottom bag is inserted in the collecting tank.
- Do not use with defective or absent filtration system!

6.4 Switching the suction system on and off at the control cabinet

In manual mode, the suction system is switched on and off via the ON/OFF button. In automatic mode this is accomplished via a machine contact.

If the suction system does not function after it has been switched on, or runs in the wrong direction, it must be switched off, the emergency power off / main switch to press, secure against re- and the technical specialist staff must be alerted.

6.5 Wrong rotating direction

Drives with radial blowers do not convey the suction air with the full suction power if the rotating direction is not correct.

If this is the case, the suction system must be switched off immediately. The emergency power off / main switch to press, secure against re- and technical specialists must be informed to have the phase conductor connections in the mains connection line relocated.

The suction system is set to clockwise rotation in the factory.

6.6 Potential equalization conductors

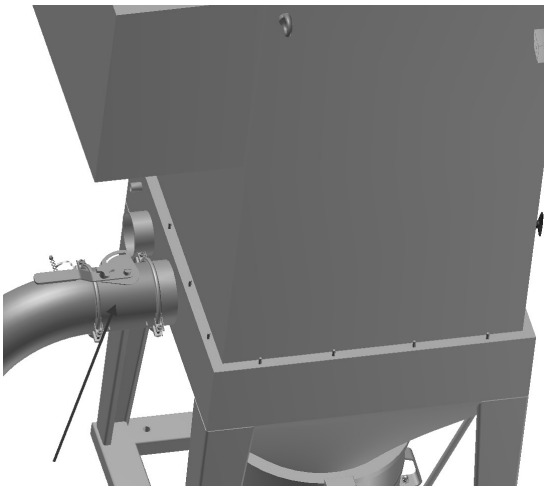
Before commissioning, always check that the potential equalization conductors (earthing conductors) are connected!



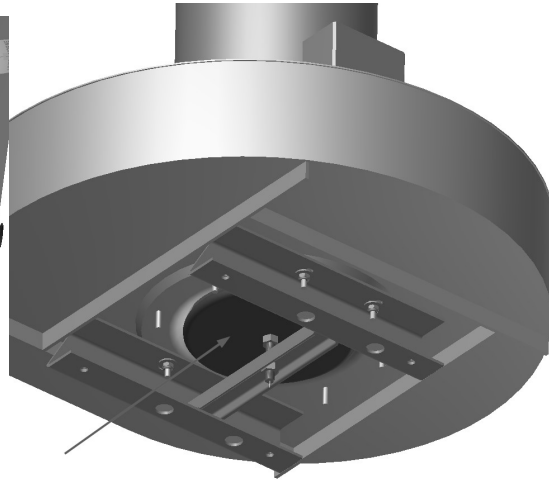
**WARNING****6.7 Throttle the system**

The dedusting unit with radial blower must only be used throttled since the motor would otherwise be overloaded. Operation without the connected throttle and pipe is only permitted for short periods. If the rated current is exceeded, the volume flow is larger than permissible. The throttle can only be set with the completely connected system on site. Our competent assembly team will gladly perform these settings for you. The throttle is either located at the pipe or at the radial blower.

Throttle in the pipe:

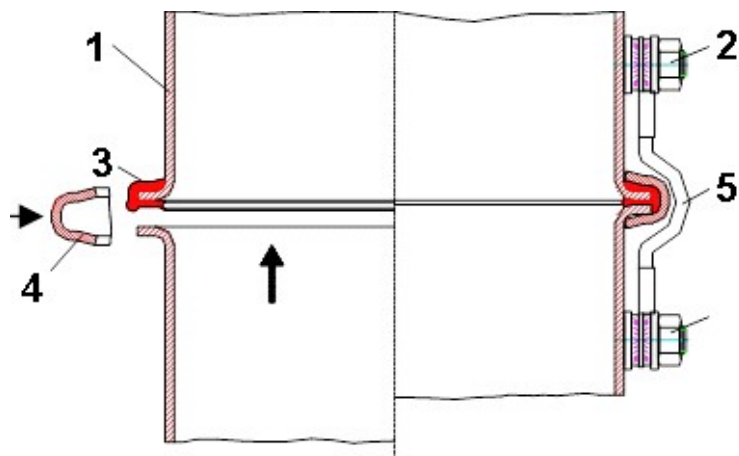


Throttle at the radial blower:

**6.7.1 Setting the throttle:**

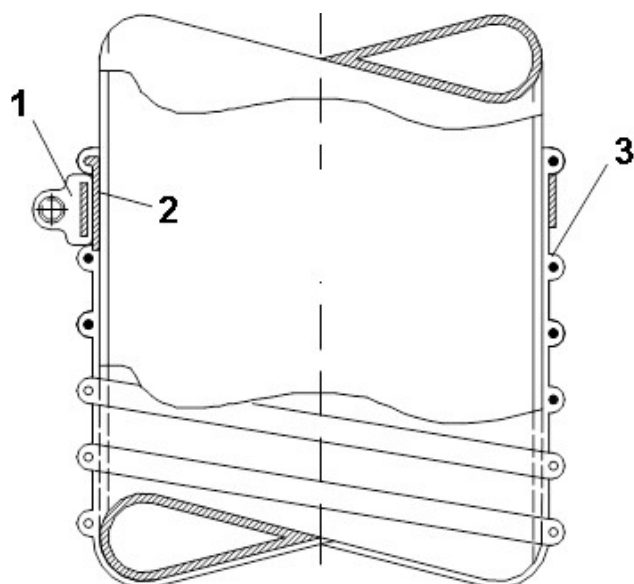
- All pipes/nozzles need to be connected
- The largest possible volume flow that may arise in operation later must be produced
- Activate the plant.
- The throttle must be closed until the rated current is reached.

6.8 Assembly Instruction Pipes



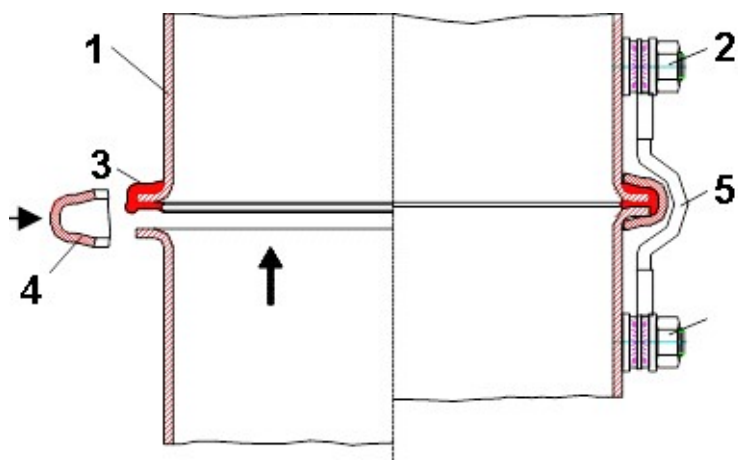
Item	Description
1	Pipes
2	Earthing point
3	Knurled sealing ring
4	Clamp ring
5	Earthing strand 6mm ²

6.9 Assembly Instructions Hose



Item	Description
1	Hose clamp
2	Wire spiral, bent, contact with blank steel tube
3	Spiral hose, type "D"

6.10 Assembly Instruction Pipes

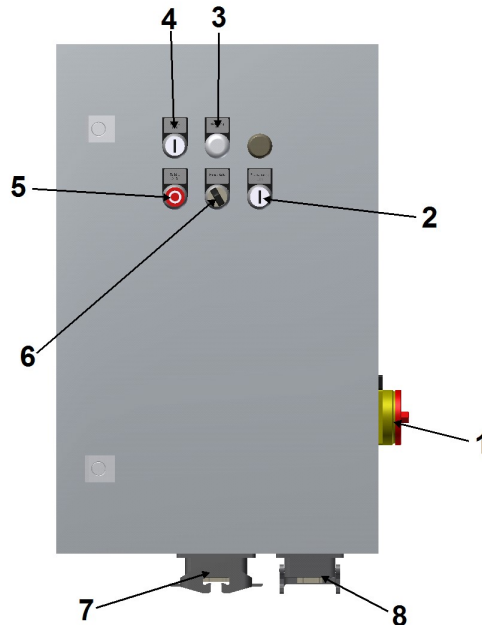


When using EPDM seals, it is sufficient if the paint is removed from both sides of the flange for each pipe. This ensures continuous grounding of the pipeline.

7 Operation

7.1 Operating elements control cabinet

(Standard design, special designs may deviate.)



1	Main switch emergency off
2	Filter cleaning "ON"
3	Control "ON" lamp
4	Turbine "ON"
5	Turbine "OFF"
6	Manually toggle switch to automatic
7	Harting connection for radial blower
8	Harting connection for electrical shaking

7.1.1 Functional description

Manual operation:

- Start/stop via selection switch 4 or 5
- Start of the electr. shaking function via lighted pushbutton 2
- Shaking shakes while button 2 is pushed

Automatic operation: (toggle switch 6 from "Manual" to "Auto")

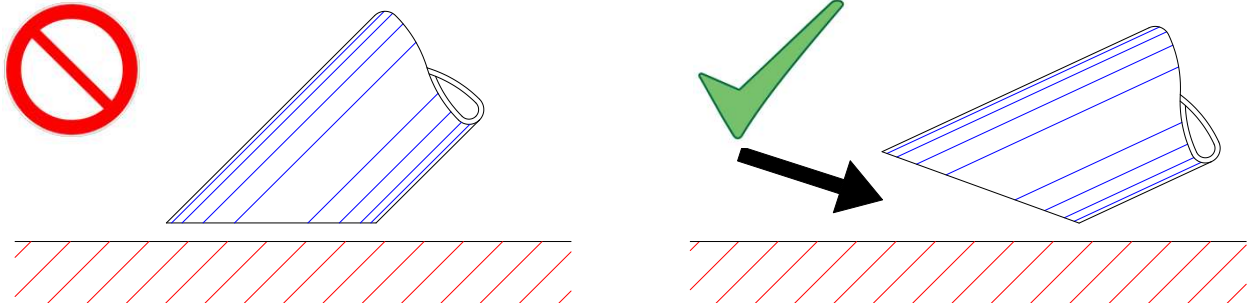
- Suction blower is controlled by a processing machine by a potential-free external signal (supply 24V DC from Ringler) of a processing machine.
- Buttons 4 + 5 without function
- Shaking starts after the stopping time of the turbine, 90 sec. after deactivation of the turbine for 60 sec.
- The shaker interval (the time between two shaking processes) should not exceed 4 hours! (The suction output grows weaker the longer the time between two shaker intervals is). A short shaking interval (< 0.5h) must be avoided. There is no filter cake built up at the filter in this.

Operation

7.2 Suction process

NOTICE

- When vacuuming up dust only immerse halfway, so that sufficient air is absorbed
- Insert desired suction nozzle into the plug-in cone on the handle of the suction tube.



Do not **immerse** the entire area of the nozzle!

Hold the nozzle **diagonally** to the suction surface, so that both air and **liquid** are absorbed

7.3 Filter cleaning

7.3.1 Electrical filter cleaning



CAUTION

- After disconnecting the turbine, the cleaning of the filter will be set off by the control system.
- Because of the slowing-down time of the turbine, the vibration process must only be started 1-2min after turn off.
- Wait approx. 30sec. for the dust to settle, before restarting the device.

7.4 Filter Cleaning Interval

Observe manometer display!

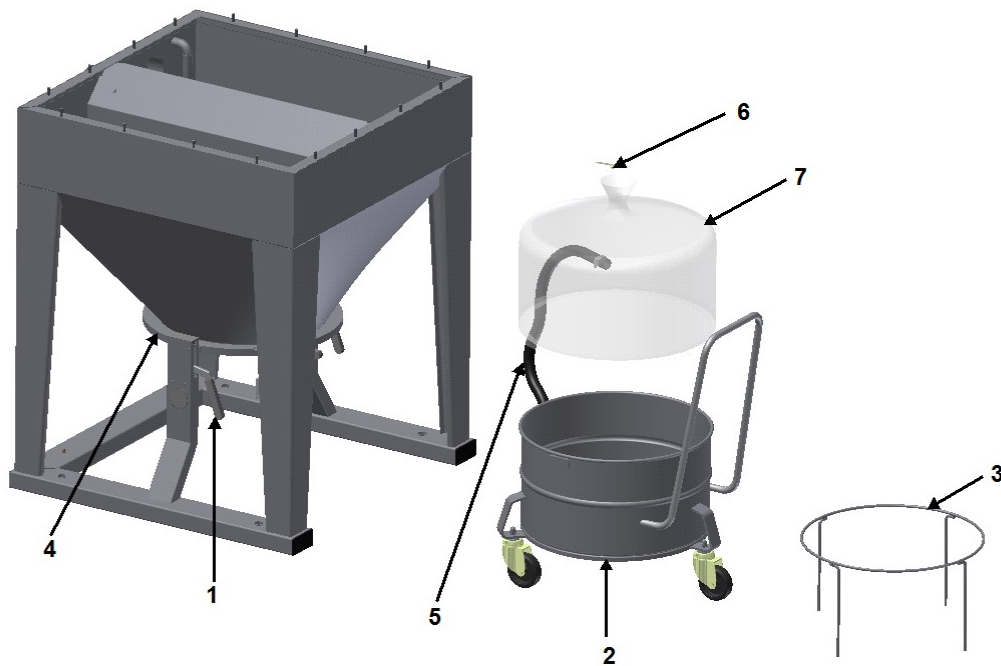
Differential pressure range **05 - 20 mbar**: Suction system and filter output are OK.

Differential pressure range **20 - 30 mbar**: Suction system works at a higher pressure, check filter contamination and clean filter if required (shake off) or replace it.

7.5 Empty collection container with PE dust bag

	WARNING
	Disconnect before starting work
	Suitable work gloves must <i>a/ways</i> be worn when carrying out maintenance and service tasks, in order to prevent injuries and soiling with contaminated substances
	Respiratory protection (EN 149:2001)
	Use protective glasses (acc. to DIN EN 166 1349-BT)
	Use protective clothing (acc. to EN 13982-1)

These work processes may only be carried out in compliance with the valid legal requirements and by trained specialized personnel with appropriate protective gear. Make sure that no dust is raised during these work processes. Wear protective mask P3. The disposal of the PE dust bag may only be carried out by trained personnel, in accordance with the valid regulations.



Before emptying the dust container, switch off the device and wait for the motor to stop. Additionally, the pocket filter should be shaken off. Then wait for about 60 s until the dust has deposited in the collection container.

- Lower the dust container "2" with the lifting device "1" and pull it out.
- Activate suction system again to prevent dust from escaping from the filter container by vibration.
- Carefully pull the PE dust bag over the bead at the collection tank and close it tightly with cable ties "6" (not included).
- Remove PE dust bag "7" from the collection container.
- If required, clean the collection container and insert a new PE dust bag (see wear parts list); carefully push the edge over the bead at the collection container to avoid damage to the PE dust bag.
- Check the condition of the seal "4" (see wear parts list) at the filter container.
- Switch off the suction system, then place the collection container "2" under the filter container, while ensuring that you do not clamp in the pressure balancing hose "5", and lift with the lifting device "1".

8 Troubleshooting and fault elimination

8.1 Safety instructions



WARNING



Disconnect before starting work

- If harmful substances escape due to a defect (eg filter defect), the machinery must be switched off immediately and the room has to be aired or leave!
- Before starting any work on the industrial vacuum cleaner, but particularly before opening covers of live or moving parts, the industrial vacuum cleaner or system must be correctly disconnected from the mains and the drive unit must have stopped
- The measures specified below may only be withdrawn when the industrial vacuum cleaner is completely reassembled and the maintenance is concluded.
- The usual **safety regulations** are, for example, in accordance with **VDE 0105**:
 - Disconnect from mains
 - Provide a safeguard to prevent unintentional restarting
 - Check that the equipment is not live
 - Cover or shield adjacent live parts.

8.2 Initial fault elimination measures

All the errors mentioned in the table below may be eliminated by yourself. In case of major problems or other failures please contact the customer service of Kärcher Industrial Vacuuming GmbH immediately. Tel. +49(0)7171-94888-0
Perform maintenance tasks in accordance with the description in the Maintenance/Service chapter

Interference	Possible cause	Remedy
Reduced suction power	• Extraction hose or nozzle clogged • Extraction hose leaking • Extraction hose not fitted correctly in extraction socket • Collection container full • Area filter/pocket filter contaminated • Seal between drive unit and collection container defective • Extraction turbine defective	• Remove clogging • Replace hose • Insert hose correctly • Empty collective container • Clean or replace filter • Clean or replace seal • Replace suction turbine by electrician
Extraction motor is not running correctly	• 2 phase run • Motor protection switch has triggered • Fuse triggered	• Inspection by electrician
Fuses trigger	• Fuse too low • Defective switch • Defective motor	• Inspection by electrician
Motor runs too hot	• Cooling air volume too low, cooling air paths clogged • Mains voltage deviates from the motor nominal voltage by more than 5% • Motor switched to triangle instead of star	• Ensure uninhibited supply and exit of cooling air • Inspection by electrician

9 Maintenance/Repair

9.1 Maintenance regulations

NOTICE



Suitable work gloves must *always* be worn when carrying out maintenance and service tasks, in order to prevent injuries and soiling with contaminated substances



Disconnect before starting work



Respiratory protection (EN 149:2001)



Use protective glasses (acc. to DIN EN 166 1349-BT)



Use protective clothing (acc. to EN 13982-1)

- Careful and periodical inspections and maintenance works are necessary to enable an early detection and elimination of possible errors before they cause bigger problems and damages.
- Kärcher Industrial Vacuuming GmbH assumes liability and guarantee only in case of proper use and compliance with the following maintenance instructions.
- The operational reliability of the industrial vacuum cleaner can only be maintained if original or approved spare parts are used exclusively for all maintenance and repairs.
- For maintenance by the user the device must be disassembled, cleaned and maintained, as far as practicable, without causing danger for the maintenance personnel or other people. Appropriate precautions include cleaning before disassembly, providing for filtered forced venting in the location where the device is disassembled, cleaning the maintenance area and wearing suitable personal protective equipment.
- The manufacturer or a trained person must carry out a technical inspection at least once a year, which comprises, for example, inspection of the filters for damage, checking the machine for leaks and checking correct functioning of the control device.
- When performing maintenance or repair work, all contaminated objects which cannot be satisfactorily cleaned must be disposed of. Such objects must be disposed of in impervious bags, in compliance with the valid regulations for the elimination of such waste. All machine parts must be considered contaminated when removed from the hazardous area, and appropriate measures must be taken to avoid dust distribution.
- For machines in category "H" and "M" the outside of the machine should be vacuumed and wiped clean or treated with sealants, before being removed from the hazardous area.
- When replacing or repairs the facility all earth conductors are connected again!





WARNING

- These works may only be carried out by an electrician.
- Before starting any work on the industrial vacuum cleaner, but particularly before opening covers of live or moving parts, the industrial vacuum cleaner or system must be correctly disconnected from the mains and the drive unit must have stopped
- The usual **safety regulations** are, for example, in accordance with **VDE 0105**:
 - Disconnect from mains
 - Provide a safeguard to prevent unintentional restarting
 - Check that the equipment is not live
 - Cover or shield adjacent live parts.

9.2 Maintenance intervals table

Interval (for 1-shift operation)	Check	Maintenance work
daily	Pocket filter	electrically shake off
	Collection container	empty
weekly	Pressure balancing hose tightness/clogging (see List of wear parts)	replace/clean
	Seal between precleaner and collection container (see List of wear parts)	clean/replace
monthly	Suction hoses (see List of wear parts)	visual inspection
annually	Suction turbine: Bearing noise	Replace bearings if necessary
	Drive unit Bag filters (see List of wear parts)	BGV A3 inspection clean/replace

NOTICE

9.3 Cleaning

Dust on the appliance must be avoided and must be removed by regularly cleaning.

Before cleaning the device, be sure to switch off the motor protection switch and unplug the device from the power supply. Cleaning can take place with a damp cloth or a suitable industrial vacuum cleaner. Do not use solvents such as thinner, alcohol or benzene. Never immerse the device in water.

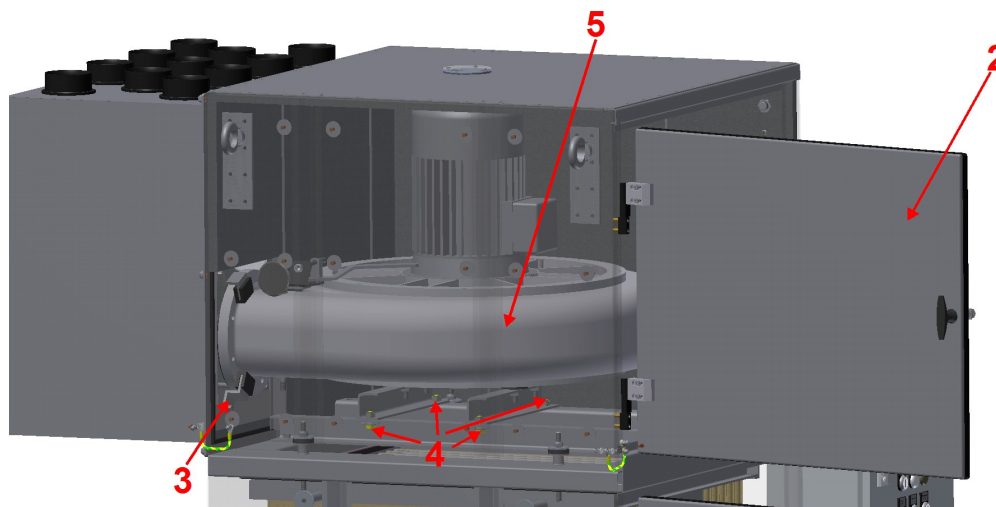
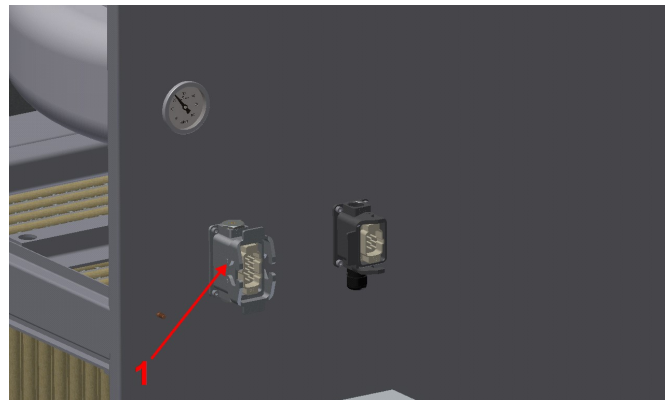
9.4 Removal of the radial blower

**WARNING**

- These works may only be carried out by an electrician.
- Before any work near or at the extraction turbine, let its surface cool down to below 50°C or wear safety gloves and work protection clothing that isolate against the arising temperatures.



Disconnect before starting work

**Preparation:**

- Disconnect Harting plug for radial blower.(1)
- Open door for motor chamber (2) by turning the door handle to the left by 180°.
- Disconnect mains cable at the radial blower

Turbine removal:

- Loosen nuts of the holder tabs (3) and turn the holder tabs away from the flange of the radial blower by 180°
- Nuts of the U-rails (4x) screw off (4).
- Remove radial blower (5) with U-rails.
- Assembly occurs in the inverse order.
- Observe throttle settings! (see commissioning)

9.5 Inspection and cleaning of the motor cooling fan

In order to prevent the motor from overheating, the motor cooling fan blades must be regularly cleaned.

9.6 Changing the filter cloth for the bag-type filter



WARNING



Disconnect before starting work



Respiratory protection (EN 149:2001)



Suitable work gloves must *a/ways* be worn when carrying out maintenance and service tasks, in order to prevent injuries and soiling with contaminated substances



Use protective glasses (acc. to DIN EN 166 1349-BT)



Use protective clothing (acc. to EN 13982-1)

The device filters become contaminated when vacuuming up substances that are hazardous to health. The following precautions must therefore be observed.

The procedure must be carried out with special care, in order to avoid raising large quantities of vacuumed-up dust.

The removed and/or replaced filter must be placed in an impervious plastic bag;

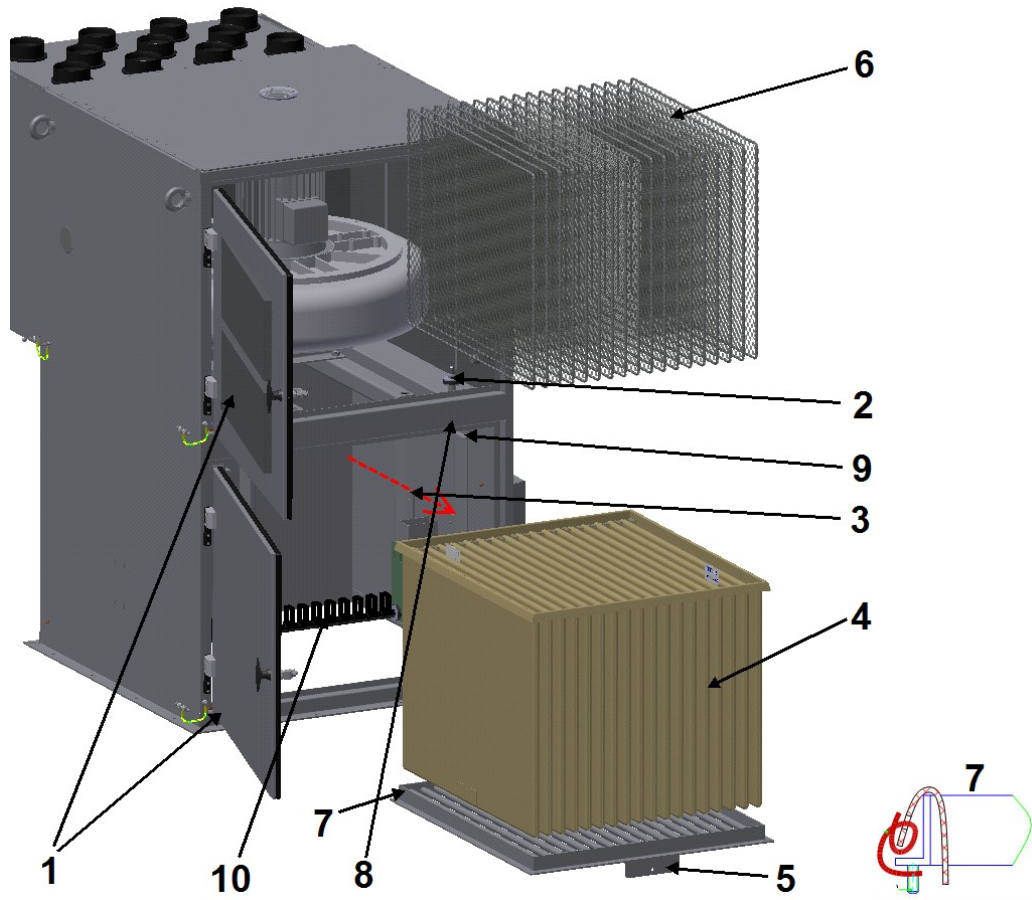
Seal the plastic bag;

The contaminated filter must be disposed of in compliance with the valid regulations for the elimination of such waste.

Replacing the filter is an important procedure. It must be replaced with another filter which has the same attributes, the same fineness, the same filter area, and which belongs to the same category. Otherwise, correct operation of the device may be impaired.

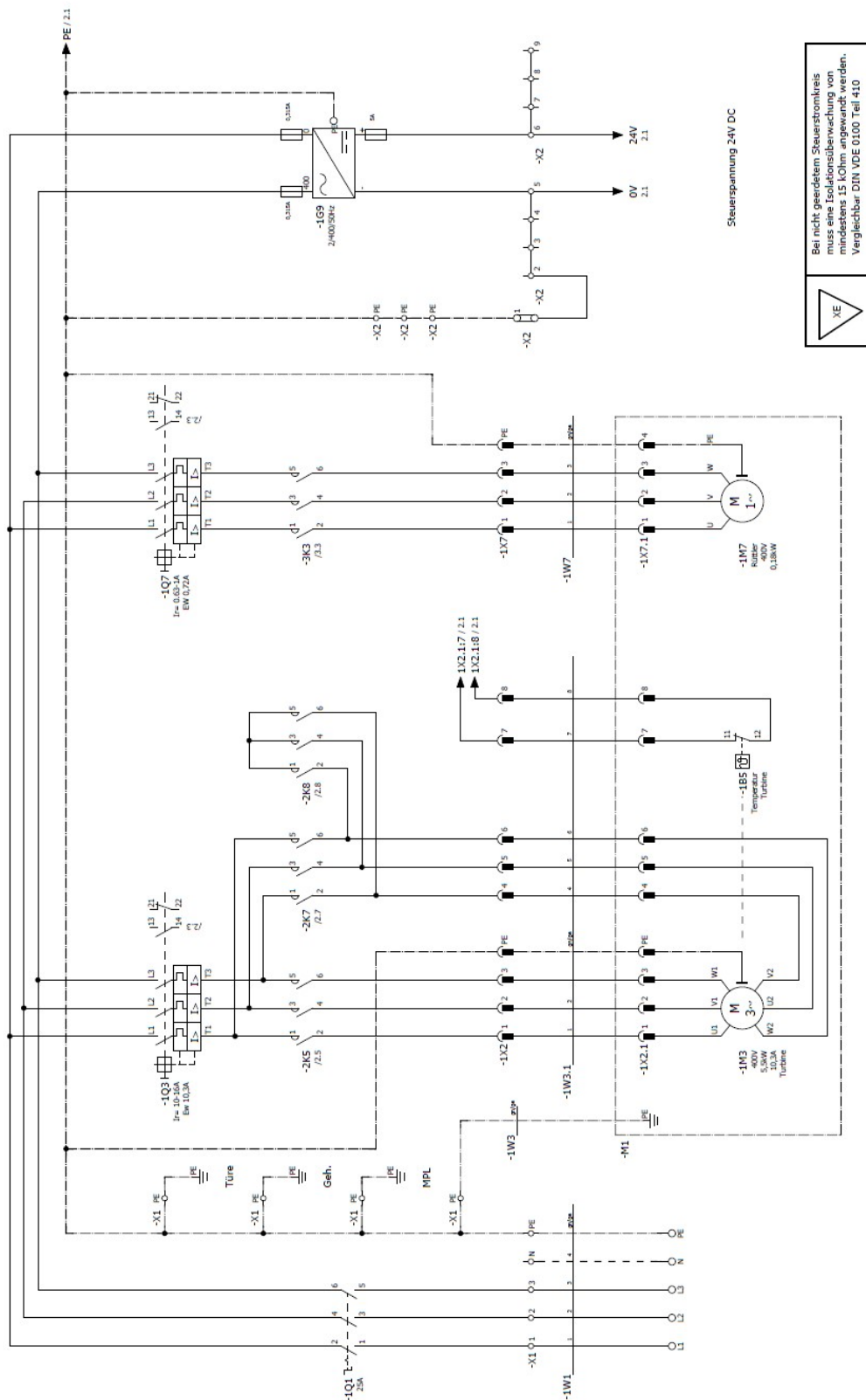
Do not raise any dust during these work processes. Wear protective mask P3 as well as other protective equipment and safety gloves (personal protective equipment), depending on the hazardousness of the aspirated dust. Refer to the valid legal requirements.

9.6.1 Work steps for pocket filter change



- Deactivate the extraction plant and wait for standstill. Open both access doors (1).
- Loosen hexagon nuts (2) (4x) but do not remove them entirely.
- Pull out filter insert (3).
- Remove pocket filter (4) from carrying frame (5).
- Remove wire mesh frame (6) from the individual filter pockets.
- Place new pocket filter (4) (see wear parts list) on the carrying frame. The individual filter pockets are inserted between the holding pipes; pull the upper filter edge over the carrying frame for sealing.
 - a) at the rear, attach 4x O-ring rubbers to openings at the filter.(7)
 - b) Attach O-ring rubber to M6 bolt at the carrying frame .(7)
- Check the seal (8). Replace if damaged. (see wear parts list)
- Insert the wire mesh frame (6) into the filter pockets again. Push the filter insert into the guide rails (9) until the individual pockets touch the spacer rake (10).
- Align the individual filter pockets with the respective opening of a spacer rake (10).
- Push in the filter insert (3) all the way and tighten the hexagon nuts (2) in the fan chamber.
- Check if the filter edge is placed above the carrying frame everywhere and seals cleanly to the seal (8).
- Close access doors (1).

9.7 Circuit Diagram



Bei nicht geerdetem Steuerstromkreis muss eine Isolationsüberwachung von mindestens 15 kOhm angewandt werden. Vergleichbar DIN VDE 0100 Teil 410



9.8 Circuit diagram for systems with control unit

Please note separate circuit diagram! The respective documents are located in the switch cabinet

9.9 Warnings on the suction device**9.9.1 Warning sign for devices in class "M"**

Attention: This device contains harmful dust. Emptying and maintenance procedures, including the disposal of dust collectors, may only be performed by expert personnel wearing the appropriate protective equipment. Do not operate without the complete filtration system.



0431002

9.9.2 Identification: Dust collectors of type 22

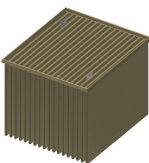
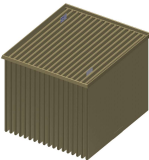
0431025

No suck in glowing dust or other ignition sources

9.9.3 Rotational direction identification

0430203

9.10 Wear parts list

Figure	Designation	Order number
	Pressure Balancing Hose Type A ø25, 1600mm	2630268
	Seal 30x6	0450018 9.980-354.0
	Filter Cloth for Pocket Filter 14 m² category "L"	0350218
	Filter Cloth for Pocket Filter 14 m² category "M"	0350125
	Suction hose	See spare parts list (Chapter 12)
	Round-floor bag PE 50 litres	1631021
	Seal self-adhesive	0451028

* specify length when ordering

10 Decommissioning, storage**WARNING**

- Switch the device off and remove the mains plug from the mains socket.
- Roll up the connection cable.
- Empty the collecting tank, in accordance with the instructions in the chapter "Operation, Control".
- Cleaning of the device as specified in the chapter "Maintenance, Repair".
- When vacuuming up aggressive substances, rinse out the tank with clean water.
- Store the device in a dry place and out of reach of unauthorized personnel.
- "ATTENTION" - This product should be kept indoors only!

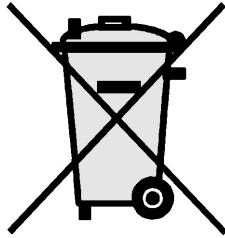
11 Disposal



WARNING

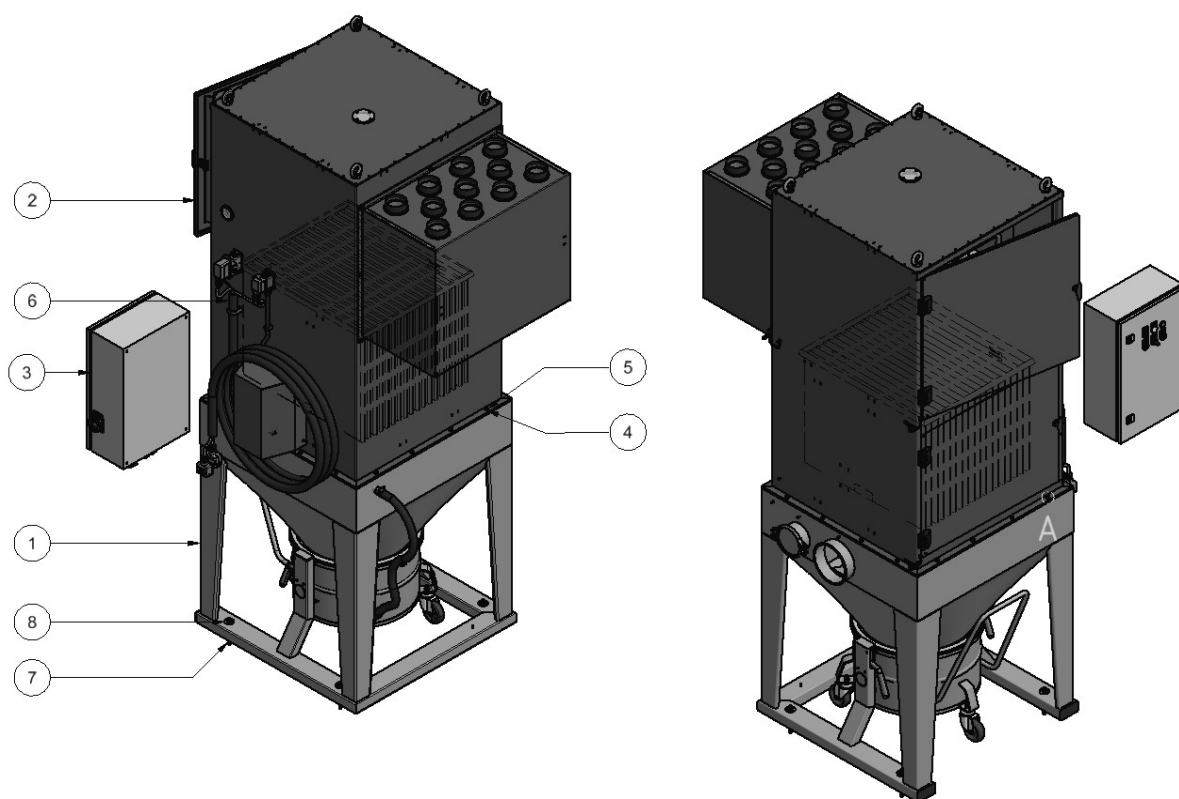
- Note preceding chapter "Decommissioning, Storage"!
- The filter inserts must be disposed of separately in accordance with environmental standards, depending on the medium vacuumed up.

Dispose of the device in accordance with the valid legal regulations.

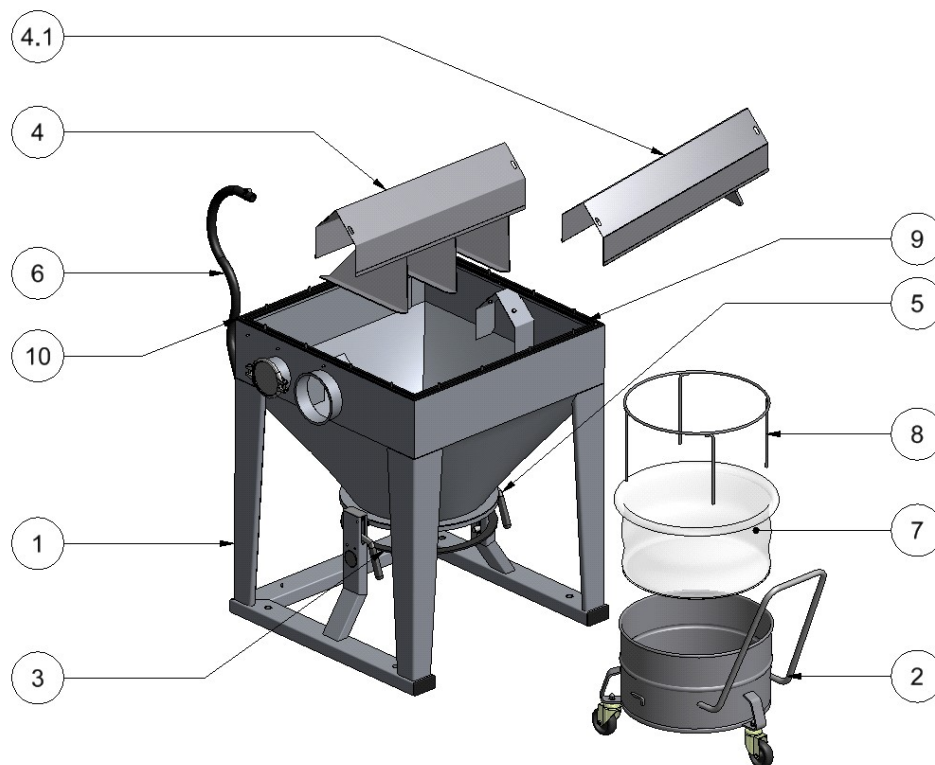


Correct disposal of this product (electrical waste) (applicable in the countries of the European Union and other European countries with a separate collection system)

The identification on the product and on the associated literature states that it must not be disposed of along with normal domestic waste at the end of its service life. Please dispose of this device separately from other waste, in order to prevent damage to the environment or to human health through uncontrolled waste disposal. This product must not be disposed of along with other commercial waste.

12 Spare Parts List**12.1 Spare part list****12.2 Spare part list**

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	Piece	3320273	A	Pre-separator assembly with 50l. Collection container, socket left
			3320273-01		Pre-separator assembly with 50l. Collection container, socket rear
			3320273-02		Pre-separator assembly with 50l. Collection container, socket right
2	1	Piece	2301076		Filter/motor assembly D3 IE3 with muffler
			2301075		Filter/motor assembly D5.5 IE3 with muffler
3	1	Piece	0980030		Control cabinet; 5.5 KW, 24V; 50 Hz
			2980549		Control cabinet; 3.0 KW, 24V; 50 Hz
4	1	Piece	0010702		U-washer ø8,4 DIN 125 B, galvanized
5	1	Piece	0010406		Locknut M8, DIN985 galvanized, with polyamide insert
6	1	Piece	2041044		Cable set - 5m long, turbine und shaker
7	4	Piece	0880009	A	Heavy duty ancor M10 x 135
8	4	Piece	0010703		Mudgard, ø40 x 10,5 x 4 mm, galvanized

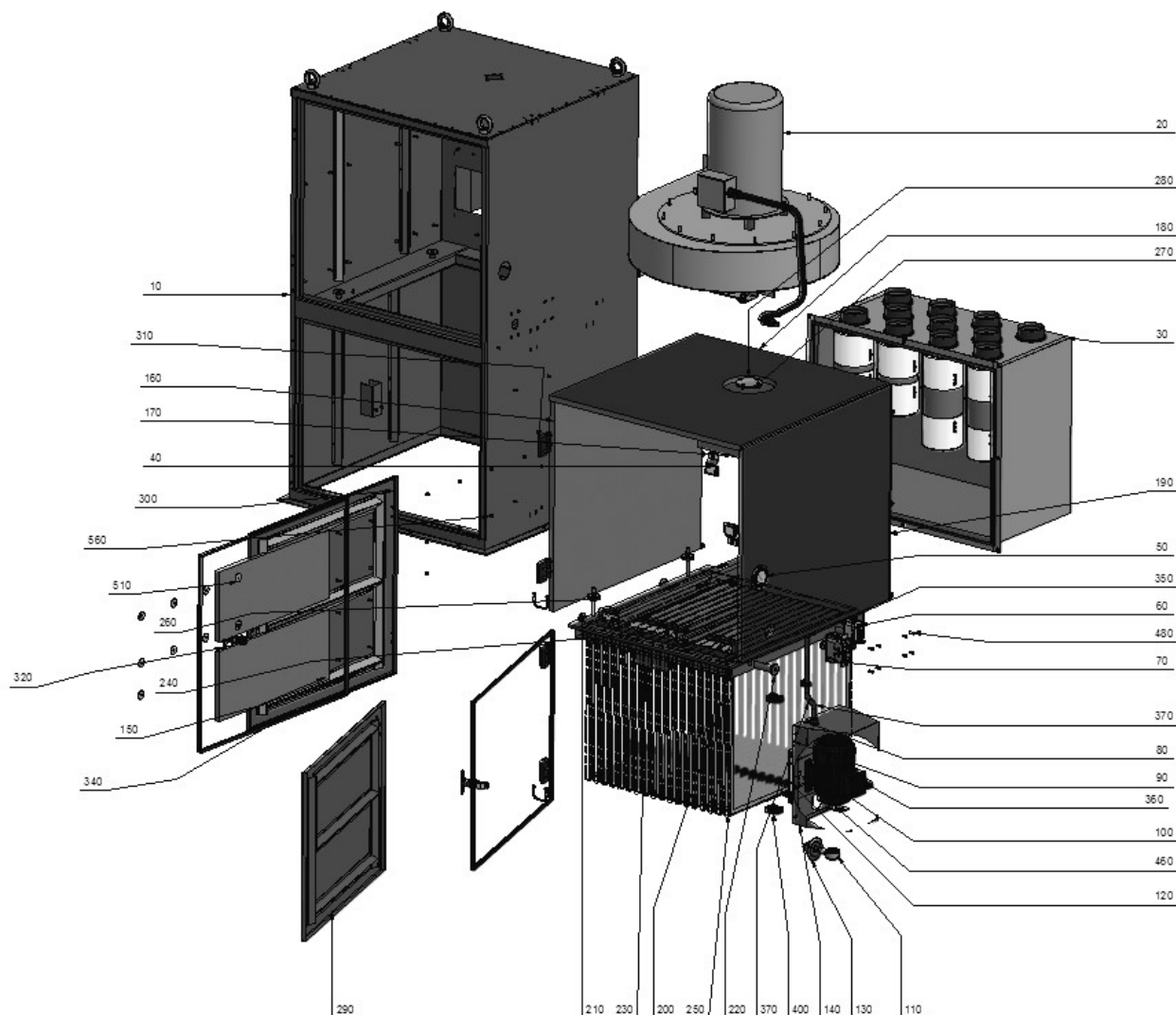
12.3 Spare parts list pre-separator


3320273-X-Z

12.3.1 Spare parts list pre-separator

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	Piece	1320241 1320241-01 1320241-02	A	Pre-separator for 50 litres SB, socket left! Pre-separator for 50 litres SB, socket rear! Pre-separator for 50 litres SB, socket right!
2	1	Piece	2100353	A	Collection container 50 litres, with 3 casters
3	1	Piece	0450018		Seal 30 x 6
4	1	Piece	0320214	F	Guide plate to pre-separator, for dusts
4.1	1	Piece	0320268	A	Guide plate to pre-separator, for chips
5	2	Piece	2240135-RE	A	Lifting facility complete (2240135-RE)
6	1	Piece	2630268	C	Pressure balancing hose, type "A", ø25
7	1	Piece	0630106		Round-floor bag PE, 50 litres, installation position in 50 litres container
8	1	Piece	0250208	B	Blank holder for 50 litres round-floor bag
9	1	Piece	0450043		Seal 8 x 6, oil-resistance, self-adhesive on one side, 835x835mm inside
10	1	Piece	0450043		Seal 8 x 6, oil-resistance, self-adhesive on one side, 878x878mm outside

12.4 Spare parts list filter and motor assembly



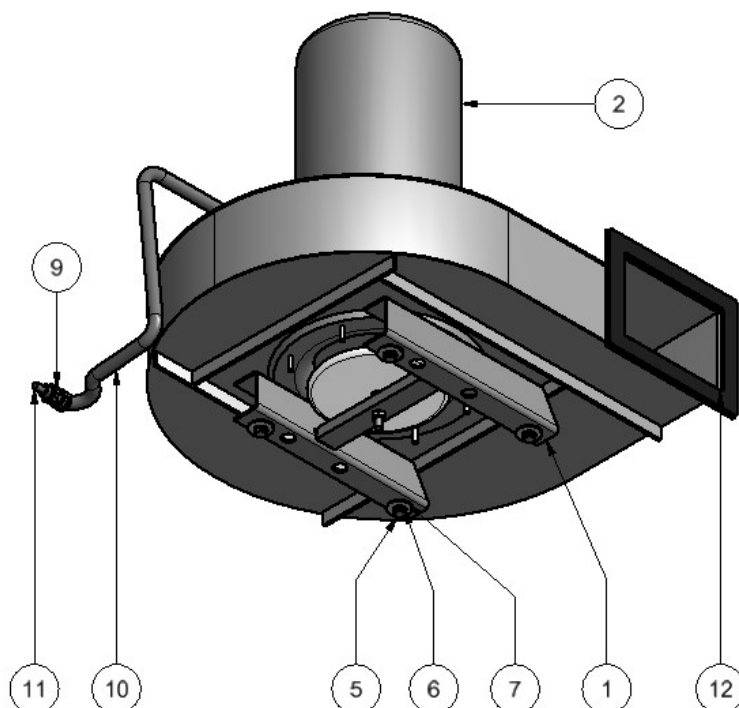
12.5 Spare parts list filter and motor assembly

Item	Qty.	Unit	Component number	Version	DESIGNATION
10	1	Piece	1440256	E	Motor and filter chamber - 1484 mm
20	1	Piece	2401019		pre-installed assembly D5.5kW IE3 with bimetal with throttle
30	1	Piece	2471010		Muffler
40	3	Piece	1211159	B	Holding tab, complete, as of 04.2015 IE3 radial blower
50	1	Piece	2330109	B	Differential pressure manometer NG 63, 0-60 mbar
60	1	Piece	2040591		Socket housing 6B with pin insert and screw connection M20
70	1	Piece	2041037		Socket housing Han 10B with 2x cross-locking brackets, pin insert
80	1	Piece	0440155	C	Base plate for shaker
90	2	Piece	0381005	A	FI 30x6 for shaking
100	1	Piece	0400268		Shaker motor 0.25 kW, build B3
110	1	Piece	2350147	B	Excenter with eye, lift 10 mm
120	1	Piece	2350144	A	Shaker motor 0.25 kW, build B3

130	1	Piece	2350146	C	Shaker guide with rubber plate and threaded rod,
140	1	Piece	0440131	D	Cover hood for shaker
150	2	Piece	0471045		Muffling composite foam door
160	1	Piece	0471043		Muffling composite foam lateral
170	1	Piece	0471058		Muffling composite foam rear
180	1	Piece	0471018	A	Muffling composite foam top
190	1	Piece	0471068		Muffling composite foam lateral right side
200	1	Piece	0451028		Seal 50x10 self-adhesive, for filter chamber
210	1	Piece	1350133	A	Guide rail on the left for pocket filter rake
220	1	Piece	1350134	A	Guide rail on the right for pocket filter rake
230	1	Piece	0350102	B	Filter basic frame for pocket filter 14m ²
240	18	Piece	0350105	A	Spacer mat 665 x 540 mm
250	18	Piece	0350217	C	Textile reinforcement for spacer frame 14/24 m ²
260	4	Piece	0450049		Sealing washer
270	1	Piece	0450054	B	Rubber seal for sight glass, dimensions: ø90 x ø63 x 3 mm
280	1	Piece	0630166	A	Sight glass straight ø90 mm, 5 mm thick, straight design,
290	1	Piece	0300200	C	Door for filter chamber
300	1	Piece	0300203		Door for motor chamber, with welding bolt inside
310	4	Piece	2091012		Hinge GN 154 plastic with bolt M6
320	2	Piece	2240154		Closure complete
330	1	Piece	0450086-08		Sealing profile 14.5 x 6.5 mm, lenght 2900mm
340	1	Piece	045008615		Sealing profile 14.5 x 6.5 mm, lenght 3100mm
350	1	Piece	0040116-01		Cable 4x1.5mm ² , lenght 1100mm
360	1	Piece	0040344		Hose screw connection M16x1.5
370	1	Piece	0040342-01		Corrugated hose W-PA, black, PG11, lenght 850mm
380	1	Piece	0040376		Cable screw connection Skintop St, M20x1.5, black
390	1	Piece	0040404		Counter nut M20x1.5
400	2	Piece	0041099		System holder SFH-29-0, grey
410	1	Piece	0040472		System holder SFH-12-0, grey
420	3	Piece	2040327		Earthing cable 6 ² , green-yellow, 150mm long, complete with nuts and washers
430	1	Piece	1440256-13		Motor an filter chamber, U-rail left, grounded
440	1	Piece	1440256-12		Motor an filter chamber, U-rail right, grounded
450	4	Piece	0010038	A	Rib screw M10x16 DIN 267
460	6	Piece	0010213	A	Rib screw M8x12 DIN 267
470	4	Piece	0010070		Cylinder screw ISO 4762 - M5x8
480	8	Piece	0010071		Cylinder screw ISO 4762 - M5x12
490	4	Piece	0010161		Recessed screw ISO 10642 - M5 x 14 - 8.8, V2A
500	4	Piece	0010703		Mudguard washer, ø40 x 10.5 x 4 mm, zinc-plated
510	84	Piece	0010727		Mudguard washer, ø30 x 6.4 x 1,25 mm, zinc-plated
520	4	Piece	0010701		U-washer ø5.3 DIN 125 B, zinc-plated
530	4	Piece	0010715	B	U-washer DIN 125-1 - B 6.4
540	8	Piece	0010702	A	U-washer ø8.4 DIN 125 B, zinc-plated
550	4	Piece	0010722		Spring ring ø6 DIN127 form A, zinc-plated
560	90	Piece	0010401	B	Safety nut M6, DIN985 zinc-plated, with polyamide insert
570	4	Piece	0010411	A	Safety nut M10, DIN985 zinc-plated, with polyamide insert

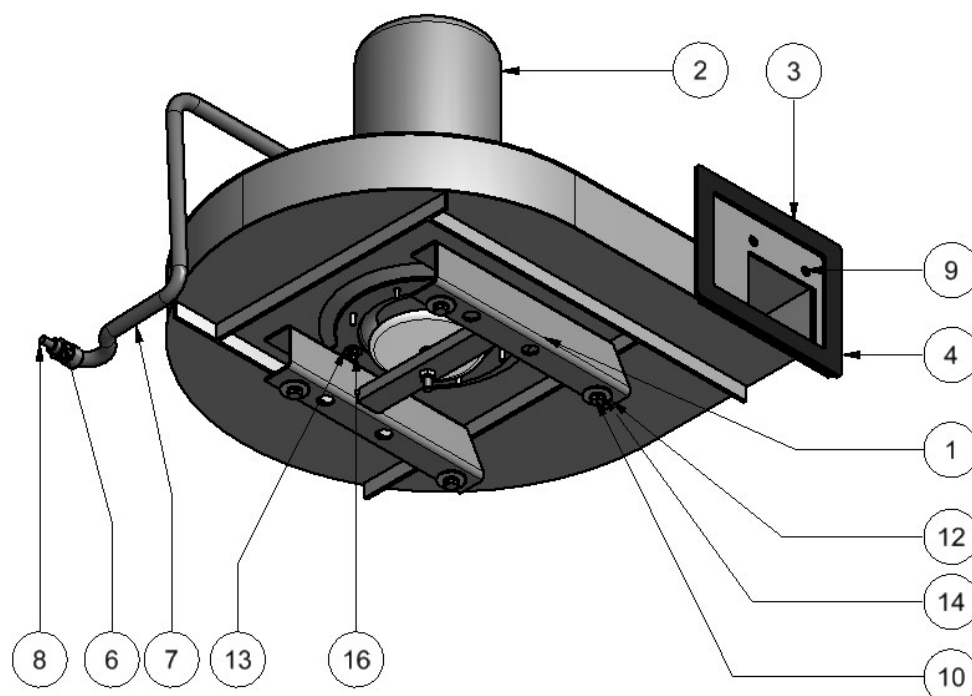
Spare Parts List

580	4	Piece	0010420		Hexagon nut DIN 934 M16, zinc-plated
590	8	Piece	0010406		Retention nut M8, DIN985 zinc-plated, with polyamide insert
600	1	Piece	0471093		Filter foam for pocket filter 14 m ² , material 0470196
610	2	Piece	0211431		Ground bar für pocket filter 14 m ²
620	6	Piece	0010716	A	Lock washer DIN 6797 - J 6.4
630	3	Piece	0010091		Cylinder screw ISO 4762 - M6x60

12.6 Spare parts list pre-installed assembly D5.5 IE3

12.7 Spare parts list pre-installed assembly D5.5 IE3

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	Piece	2621162		Motor holder with throttle 5.5 kW IE3
2	1	Piece	0401059		Radial blower IE3 D5.5kW; FG-P-501-2 P5A 132SA2 RD180 with bimetal
3	4	Piece	0011093		Disc DIN 9021 - 8.4 x 24 x 2 zinc-plated
4	4	Piece	0010406		Retention nut M8, DIN985 zinc-plated, with polyamide insert
5	4	Piece	0010134		Hexagon screw M10x25 DIN 933-8.8, zinc-plated
6	4	Piece	0010723		Spring ring ø10 DIN127 form A, zinc-plated
7	4	Piece	0010703		Mudguard washer, ø40 x 10.5 x 4 mm, zinc-plated
8	1	Piece	0040377		Reduction M25x1.5 / M20x1.5
9	2	Piece	0040471		Hose screw connection M20, NW17, IP66, grey (SVND-M207 GT)
10	0,850	Meter	0040469		Corrugated tube, grey, NW17 (PCLT-17S.50) 850mm
11	1,100	Meter	0040305		Cable 9x1.5mm² oil flex grey, 1.1m long,
12	1	Piece	0451064	A	Seal one-s. self-adh., dimensions: 275x215x6

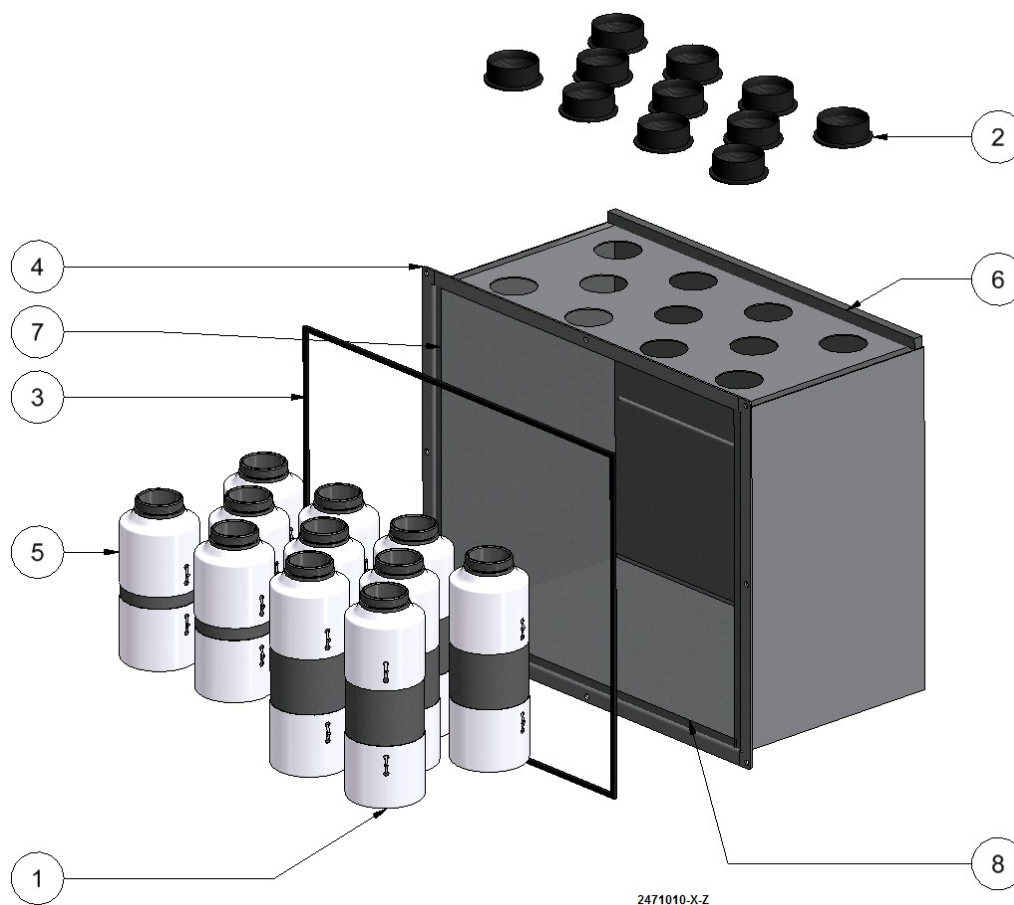
12.8 Spare parts list pre-installed assembly D3 IE3



12.9 Spare parts list pre-installed assembly D3 IE3

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	Piece	2621166		Motor holder with throttle
2	1	Piece	0401064		Radial blower IE3 D3kW; type FE-P-501-2 P5A 100LA2 RD180
3	1	Piece	0211344		Adapter sheet blow-out radial blower 3 kW
4	1	Piece	0451064	A	Seal one-s. self-adh., dimensions: 275x215x6
5	1	Piece	0040377		Reduction M25x1.5 / M20x1.5
6	2	Piece	0040471		Hose screw connection M20, NW17, IP66, grey (SVND-M207 GT)
7	0,850	Metre	0040469		Corrugated tube, grey, NW17 (PCLT-17S.50) 850mm
8	1,100	Metre	0040305		Cable 9x1.5mm ² oil flex grey, 1.1m long
9	4	Piece	0010252		Recessed screw ISO 10642 - M6 x 20 - 8.8, zinc-plated
10	4	Piece	0010134		Hexagon screw M10x25 DIN 933-8.8, zinc-plated
11	4	Piece	0010727		Mudguard washer, ø30 x 6.4 x 1,25 mm, zinc-plated
12	4	Piece	0010703		Mudguard washer, ø40 x 10.5 x 4 mm, zinc-plated
13	4	Piece	0011093		Disc DIN 9021 - 8.4 x 24 x 2 zinc-plated
14	4	Piece	0010723		Spring ring ø10 DIN127 form A, zinc-plated
15	4	Piece	0010401	A	Safety nut M6, DIN985 zinc-plated, with polyamide insert
16	4	Piece	0010406		Retention nut M8, DIN985 zinc-plated, with polyamide insert

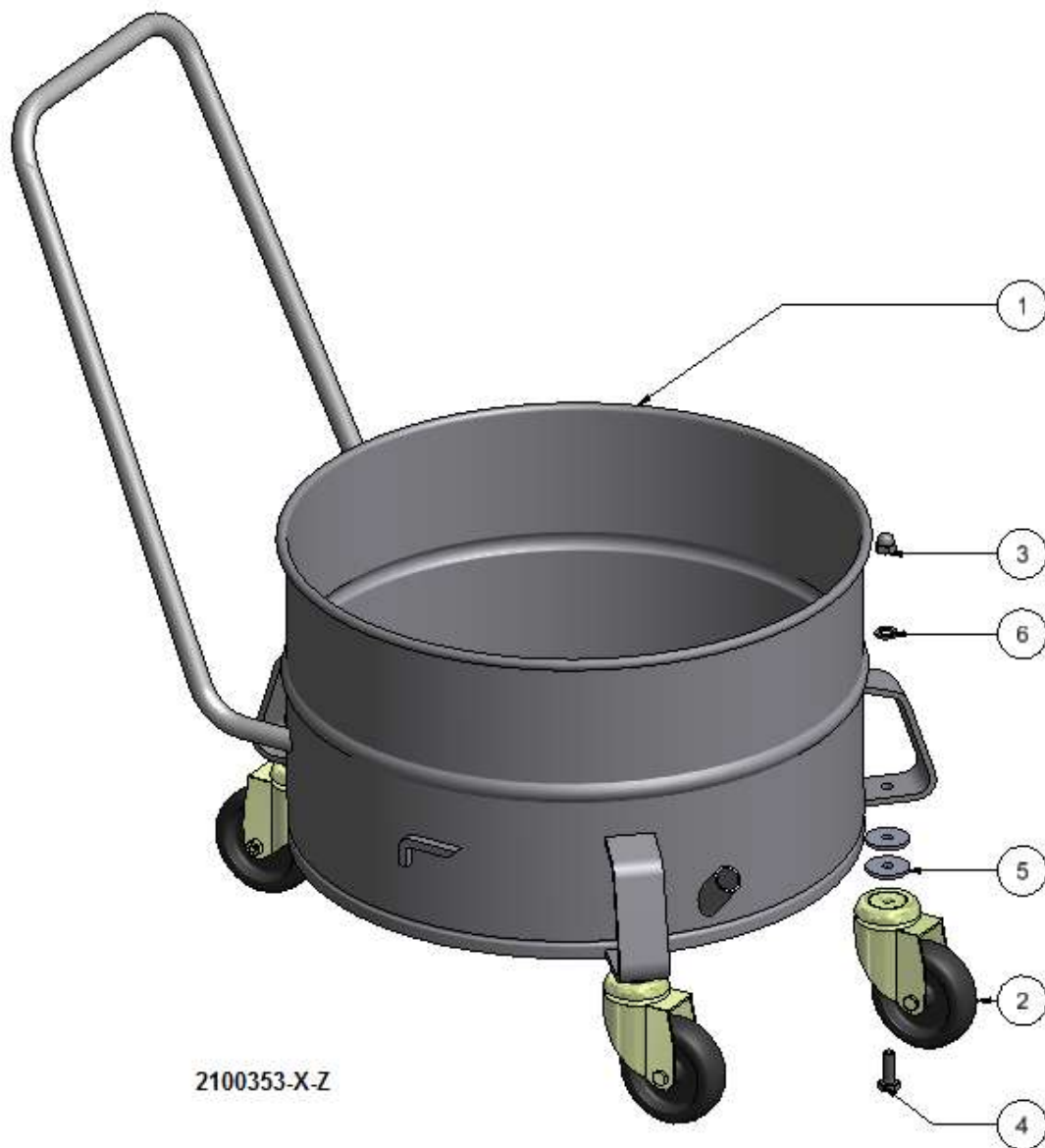
12.10 Muffler (2471010)



12.10.1 Muffler (2471010)

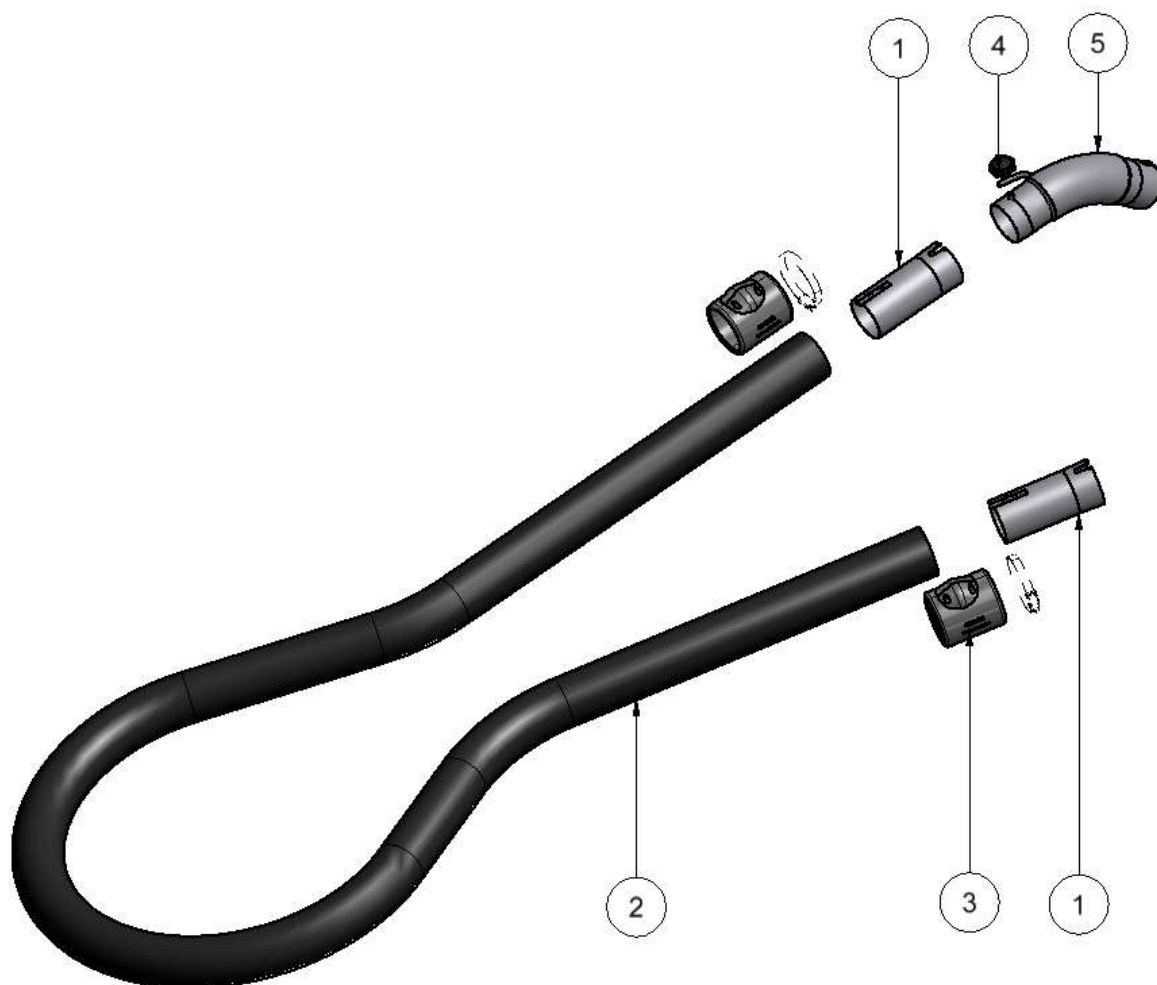
Item	Qty.	Unit	Component number	Version	DESIGNATION
1	6	Piece	2600482	A	Muffler blow-out hose ø 76 x 330 mm, grey
2	11	Piece	0120030		Threaded ring 2 3/4"
3	1	Piece	0450043-008		Seal 8 x 6, oil-resistance, self-adhesive on one side, 620x768.5 inside
4	1	Piece	1470165	F	Muffler
5	5	Piece	2600502	A	Muffler blow-out hose ø 76 x 250 mm, grey
6	1	Piece	0471019		Muffling composite foam
7	2	Piece	0471021		Muffling composite foam
8	1	Piece	0471020		Muffling composite foam

12.11 Spart parts list collection container (2100353)



12.12 Spart parts list collection container (2100353)

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	Piece	1100259	B	Collection container, 50 litres with handle, roller holder
2	3	Piece	2220024	B	Caster ø100 mm without stop
3	3	Piece	0010430		Cap nut M10 DIN 1587, zinc-plated
4	3	Piece	0010135		Hexagon screw M10x30 DIN 933-8.8, zinc-plated
5	6	Piece	0010703		Mudguard washer, ø40 x 10.5 x 4 mm, zinc-plated
6	3	Piece	0010723		Spring ring ø10 DIN127 form A, zinc-plated

12.13 List of spare parts/drawing suction hose unit DN 70, pipeline connection, all types

12.13.1 List of spare parts/drawing suction hose unit DN 70, pipeline connection, all types

Item	Qty.	Unit	Component number	Version	DESIGNATION
1	1	piece	1480446	A	Tube connection piece with internal cone DN70
2	1	piece	1600440		Spare hose DN70 Type "A", 3m
			1600441		Spare hose DN70 Type "A", 5m
			1600124		Spare hose DN70 Type "C", 3m
			1600125		Spare hose DN70 Type "C", 5m
			1600260		Spare hose DN70 Type "D", 3m
			1600261		Spare hose DN70 Type "D", 5m
			1600128		Spare hose DN70 Type "E", 5m
3	1	piece	2050048		Mounting set for hose connection DN70 (DBP)
4	1	piece	0090008	B	Star handle E40 x M8
5	1	piece	0490099	C	Handle 45° with hose connection piece DN 50, black

Spare Parts List

12.14 Accessories List

Image	Designation	Connection size (order)
	Elastic nozzle	DN 40 (1610115)
		DN 50 (1610116)
		DN 70 (1610117) *
	Flexible nozzle	DN 40 (1610118)
		DN 50 (1610119)
		DN 70 (1610120) *
	Flexible grooves nozzle 13mm	DN 40 (1610121)
		DN 50 (1610123)

Additional accessories can be found on the website of the company Kärcher Industrial Vaccuming GmbH or in the accessories catalog.

* Accessories size not available for all devices

13 EEC-Declaration of Conformity**EC Declaration of Conformity in accordance with the
Machinery Directive 2006/42/EC Appendix II 1A**

The product described below:

This declaration shall cease to be valid if the machine is modified without our prior approval.

Designation: Deduster
Type: ID 265/55 Afc
Serial number: 9987xxxxxx
Year of build: 09.2024

produced by:	Kärcher Industrial Vacuuming GmbH Robert-Bosch-Straße 4-8 D 73550 Waldstetten	Person authorized for the compilation of technical documents
	Tel: +49(0)7171-94888-0 Fax: +49(0)7171-94888-28 e-mail: info.iv@de.kaercher.com	Alexander Haag Dept.: Design/Construction Robert-Bosch-Straße 4-8 D 73550 Waldstetten

complies with the following EC directives:

EC Directive (2006/42/EC)
Low-Voltage Directive (2014/35/EU)
EMC Directive (2014/30/EU)

The following harmonized standards were applied:

DIN EN ISO 13857	Safety of machinery; Safety distances to prevent upper and lower limbs coming into contact with danger points
DIN EN ISO 13854:2020-01	Safety of machinery; Minimum distances to avoid crushing of body parts.
DIN EN 60335-2-69	Special requirements for vacuum cleaners and water suction devices for industrial and commercial purposes.

Waldstetten, 09.09.2024



T. Wahl
Managing Director



A. Haag
Director R&D