

Operating instructions

**Semi-automatic dust  
collection system**

Code No. 99-97-0171 GB

Edition: 11/2011



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# 1 Basic instructions



Please take care of this manual and always keep it in the same place for quick reference.

All persons working with the system, assembling, cleaning and servicing it have to be familiar with the contents of these instructions.

Please take into consideration the comprised safety instructions !

If this manual should get damaged or lost, **Big Dutchman** will be glad to provide you with a new copy.

## 1.1 Basics

The Semi-automatic dust collection system has been built with state-of-the-art technology and fulfils the recognised technical safety requirements. It is safe to operate. However, danger to the life and limb of the user or third parties or impairments to the system or other property can occur, should it be used in the incorrect manner.

The system may only be mounted, attended, repaired and used

- for due use
- in an excellent state from the safety and technical point of view
- by persons who are familiar with the safety regulations and who have been authorized by the owner.

In the event of special problems which are not described in detail in this manual, we recommend to contact us for your own safety.

## 1.2 Designated use

The semi-automatic dust collection system is used to clean the StuffNix.




Every other use is considered as non-designated use. The manufacturer does not accept liability for damages resulting from other uses, the user alone has to bear the risk. The designated use also includes the exact following of the operation, maintenance and repair conditions as prescribed by the manufacturer.

The limit values stated in the Technical data (see chapter 3.3 "Technical data", page 13) may under no circumstances be exceeded.

## 1.3 Explaining the symbols


### 1.3.1 Safety symbols

Upon reading this manual you will come across the following symbols:



	<b>Warning</b>	This symbol indicates risks possibly leading to personal injury resulting in death or to severe injuries.
	<b>Caution</b>	This symbol indicates risks or insecure procedures possibly leading to injuries or material damage.
	<b>Note</b>	This symbol indicates notes leading to an effective, economic and environmentally-conscious handling of the installation.

### 1.3.2 Safety symbols in the manual and on the installation

These safety symbols illustrate remaining dangers when handling the system. They are supplements to the above-mentioned symbols:

	Warning against dangerous electric tension
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## 1.4 Ordering spare parts

	<p><b>Operational safety is the prime necessity !</b></p> <p>For you own safety only use original <b>Big Dutchman</b> spare parts. For foreign products that have not been released or recommended we cannot judge whether there is a safety risk in connection with <b>Big Dutchman</b> systems.</p>
	You can find the exact description of the parts for ordering spare parts by means of the pos. no. in the spare parts list.

**Indicate the following for ordering spare parts:**

- Code No. and description of the spare part or
- Invoice No. of original invoice
- Power supply e.g. 230/400V-3Ph.- 50/60Hz

**1.5 Waste disposal**

After finishing the assembly or repair of this installation, dispose of the packing material and remains which do not need to be further used according to the legal provisions for recycling.

The same applies to the component parts after putting the installation out of service.

**1.6 Obligations**

Pay attention to the instructions in this manual.

In order to utilise this system safely and without the incurrance of malfunctions, it is essential to be fully aware of the basic safety instructions and safety specifications.

The information contained in these operating instructions, as well as the enclosed operating instructions for the frequency converter and the vacuum pump must be observed and followed by all persons charged with installing, operating and maintaining the system. It is also essential to observe accident prevention rules and regulations applicable to the location of usage.

Any modifications to the system exclude the manufacturer from liability for any damage resulting from this.

**1.7 Warranty and liability**

Warranty and liability claims regarding personal or material damage are excluded if they result from one or several of the following causes:

- non-designated use of the installation,
- inappropriate mounting and operating of the system,
- non-observance of the instructions in this manual regarding transport, stock keeping, mounting, maintenance and upgrading of the system,
- inappropriate repairs,
- in the event of a disaster caused by foreign matters or force majeure.

## 1.8 First aid

For the case of an accident, unless specified otherwise, a first-aid kit must always be available at the place of work. Material taken out and used is to be replaced immediately.

**If you need help, describe the accident as follows:**

- where it happened
- what happened
- the number of persons injured
- what type of injury
- who is reporting the accident! (your data)

## 1.9 Notes for use

We reserve the right to modify the construction and technical data for reasons of further development.

Therefore, no claims can be derived from the information, pictures, drawings and descriptions. Subject to correction !

Get the information on mounting, adjusting, operating and maintaining before taking the system into operation.

Apart from the safety-relevant instructions in this manual and the safety precautions valid in the country of use, also consider the generally acknowledged technical regulations (safe and appropriate working according to UVV, VBG, VDE etc.).

## 1.10 Copyright

This manual is subject to copyright. The information and drawings included in this manual shall not be copied without the manufacturer's consent, nor shall they be used for anything other than the designated use. Neither shall they be given to third parties.

The contents of this manual can be altered without prior notice.

If you find mistakes or unclear information in this manual, please do not hesitate to let us know.

All trade marks mentioned or shown in the text are trade marks of their respective owners and are recognised as patented.



**For further information please contact:**

Big Dutchman International GmbH, P.O. Box 11 63, D-49360 Vechta, Germany,

Phone +49(0)4447/801-0, Fax +49(0)4447/801-237

e-mail: [big@bigdutchman.de](mailto:big@bigdutchman.de), Internet: [www.bigdutchman.de](http://www.bigdutchman.de)

## 2 Safety

### 2.1 General safety instructions




All established safety precautions and other generally accepted safety regulations and medical references have to be observed. Please check safety and function control devices to ensure safe and accurate operation:

- before putting into operation
- at adequate time intervals
- after modifications and repairs.

Check the proper functioning of the system after any kind of repair works. You may only take the device into operation, when all protective systems have been put into place again. Follow the directions of the electric and water supply company.

### 2.2 Safety instructions when operating electrical appliances

You have to ensure that the system with the electrical appliances is operated and maintained according to the electro-technical regulations.

	Installation and work on electric components/structural groups may only be carried out by qualified personnel according to electro-technical regulations (e.g. EN 60204, DIN VDE 0100/0113/0160).
	Dangerous electric tensions are bare in case of open control equipment. Be aware of the danger and keep workers of other professions away from the danger zone !
	Do not install control devices directly in the house, but in the service room to prevent corrosion caused by ammonia gas.

Immediately switch off the installation in the event of malfunctions of the power supply units. Use a bipolar voltage probe to make sure that the electrical equipment is not alive.

Check the electrical wiring and cables for recognisable damage before putting the device into operation. Replace damaged wiring and cables before taking the device into operation.

Only use the fuses indicated in the circuit diagram. Immediately replace damaged fuses. Never repair or bypass the fuses!

Never cover the electrical motor. This can cause high temperatures resulting in fire and a break-down of the equipment.

The control box as well as the terminal and connector boxes of the installation must always be kept shut.




Let damaged or broken plugs be replaced by an electrician.

Do not pull the plug from the socket at the flexible cable.

For the respective connections please see the enclosed connecting plan of the system parts delivered.

## 2.3 Specific safety instructions

### 2.3.1 Clothing for personal safety

	<p>Wear close-fitting clothes when carrying out mounting, maintenance and cleaning work at the installation.</p>
	<p>Do not wear rings, chains, watches or other items which could get caught at parts of the installation.</p>
	<p>Never work with long hair that is not tied together. Your hair could get caught in moving devices or system parts and thus cause serious injuries.</p> <p>During all mounting, maintenance and cleaning work at the installation, wear protective clothes and shoes as well as safety glasses and gloves if required.</p>

### 2.3.2 Assembly and maintenance


The system may only be assembled by qualified persons who have been trained and authorized by **Big Dutchman**.

Repairs must only be carried out by persons who can guarantee for a proper execution on the basis of their training or their practical knowledge and experiences. Only the owner or the operator have the power of such a decision.

Every electrical work must only be carried out by qualified electricians according to the respectively valid electrical regulations such as DIN, VDE, safety regulations and the prescriptions of the local electric power supply companies or the regulations valid in the country.


Only work with appropriate tools; in case of possible danger to hands, use protective gloves, and safety glasses in case of danger to the eyes.

Tangit special adhesive is used during the assembly. **The following safety instructions have to be strictly observed when using this special adhesive:**

	<p><b>Warning:</b></p> <p><b>Tangit special adhesive is highly flammable! Therefore:</b></p> <ul style="list-style-type: none"> <li>• No open fire nor space heaters, gas-powered heaters and open light bulbs in the work area!</li> <li>• Do not smoke, weld or grind in the work room!</li> <li>• Solvent vapours are heavier than air. Such vapours may cause unconsciousness and/or form explosive mixtures. Use and dry only in well-ventilated areas. Make sure area stays well-ventilated after gluing work is finished!</li> <li>• Remove possible vapour clouds before starting welding or grinding works!</li> <li>• Observe the general instructions by the manufacturer on the back of the container!</li> </ul> <p><b>A safety data sheet in compliance with 91/155/EWG - ISO 11014-1 for the Tangit special adhesive is available from the manufacturer or from Big Dutchman upon request.</b></p>
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### 2.3.3 Employing external personnel

Mounting and maintenance work is often carried out by external personnel which does not know the system-dependent conditions and the dangers resulting therefrom

	<p>The person in charge is responsible for the safety of external personnel.</p>
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Areas of responsibility, competences and the supervision of the personnel must be arranged by the operator. These persons must be informed in detail about the dangers in their field of activity. The operator should check their working method and intervene in time.

## 2.4 Special safety instructions

- The power supply must be interrupted (with the exception of the manual blow-back of the filter) before performing all work or servicing tasks on the semi-automatic dust collection system.
- While carrying out installation, servicing, operation or other tasks, appropriate measures must be taken to prevent objects of any kind from getting into the vacuum pump. Should this nevertheless occur, the pump may not be started up under any circumstances, as this could destroy it!
- The semi-automatic dust collection system is not intended for collecting wet or damp materials and dust, or water and other fluids. However, should liquids or humidity get into the semi-automatic dust collection system, the machine must be shut down immediately and then dried out before being used again.
- The semi-automatic dust collection system may not be used under any circumstances to collect burning, incandescent, explosive or flammable liquids or materials.
- If damage is detected to the filter, it must be replaced without delay, in order to avoid damage to the pump. Using the system when the filter is damaged voids the warranty!
- Used filters and full dust bags must be treated with the utmost care, as they may contain dust which is hazardous to health. Used filters must be carefully sealed inside a plastic bag. The dust bag must also be carefully sealed. Dust and used filters must be disposed of in the proper manner.
- The cooling air supply of the motor may not be covered under any circumstances.
- Repairs and servicing on the electrical system and the pump may only be carried out by a specialist.

### 2.4.1 Dust



Various types of dust can be hazardous to health or pose an environmental hazard. Comply with the regulations in force at your workplace at all times.

Dispose of dust and used filters in accordance with applicable laws!

Always enact appropriate measures to protect your own health.

### 2.4.2 Compressed air

**Risk of injury due to high pressure!**

Before releasing lines or valves, shut off the pressure and bleed the lines.

Before blowing out a hose or air line, hold the open end securely. A free end can lash around, resulting in injuries.

Only uncouple a hose if you are certain that it has been depressurised.

Never play around with compressed air. Never direct compressed air onto the skin or at other people!

### 2.5 Dangers resulting from the non-compliance with the safety instructions

Non-observance of these instructions can cause severe danger for life and health of people or can lead to material or environmental damages and to the forfeiture of any claim for damages. To be precise, the non-observance of these instructions can lead to:

- Failure of vital functions of the installation
- Failure of prescribed maintenance methods
- Dangers for people owing to electrical and mechanical influences.

## 3 System description

### 3.1 Assembly



Figure 3-1: Semi-automatic dust collection system with one separator

- |                                       |                                |
|---------------------------------------|--------------------------------|
| ① Filter housing with filter          | ⑤ Frequency converter          |
| ② Dust collection container           | ⑥ Vacuum pump (suction module) |
| ③ Upper section of the filter housing | ⑦ Frame construction           |
| ④ Switch box                          |                                |



Figure 3-2: Semi-automatic dust collection system with two separators

- |                                       |                                |
|---------------------------------------|--------------------------------|
| ① Filter housing with filter          | ⑤ Frequency converter          |
| ② Dust collection container           | ⑥ Vacuum pump (suction module) |
| ③ Upper section of the filter housing | ⑦ Frame construction           |
| ④ Switch box                          |                                |



## 3.2 Operation

The unit is controlled by a PLC and a frequency converter and has a start/stop function. Filter cleaning is performed automatically, using compressed air.

The suction module, and the dust collection system connected to it, is activated when the vacuum hose in the house is inserted into the flap valve. The dust is sucked into a separator, which works according to the principle of centrifugal separation. The dust is automatically collected in a dust collection container.

On a machine with two separators, an automatic switchover to the second separator occurs once the maximum fill height is reached. This enables continuous dust collection. When the switchover occurs, the cover flap of the first separator opens and the dust falls into the dust collection container.

The filter cartridge in the separator is cleaned automatically. This means that only clean air passes through the suction module, which ensures a long service life for the machine.

## Environment

Great value was placed, in the design of our semi-automatic dust collection system, on environmentally-friendly production. The materials used in its construction are 98% recyclable! Small electrical components are the exception. No solvents are used in the surface coating itself, in the coating process or for cleaning.

## 3.3 Technical data

Table 3-1: Materials used in the semi-automatic dust collection system

<b>Frame construction</b>	Steel, SIS 1312
<b>Filter housing</b>	Steel, SIS 1312
<b>Vacuum pump</b>	Pump, impeller and shaft made from aluminium and/or cast iron. Copper windings.
<b>Filter</b>	Metal end pieces. Filter material is cellulose or polyester (others optionally available).
<b>Switch box</b>	Box made from sheet steel. Switching components: plastic and copper.
<b>Plastic parts</b>	Polyethylene and bakelite
<b>Coating</b>	Polyester powder, TGIC-free
<b>Seals</b>	Natural rubber

Table 3-2: Suction unit

Size (L x W x H):	81 x 81 x 155 cm
Weight:	140 kg
Operating voltage:	400 V
Current consumption:	9.8 A
Power consumption:	4 kW
Max. output capacity:	48 m <sup>3</sup> /h
Max. negative pressure:	325 mbar
Sound pressure level:	62 dB (A)
Users:	1 to 4

Table 3-3: Dust separator

Size (L x W x H):	150 x 130 x 280 cm
Weight:	140 kg
Filter area:	7.5 m <sup>2</sup>
Total volume:	500 litres

Table 3-4: Compressor 350/10/2/50 D

Operating voltage:	400 V
Power consumption:	1.5 kW
Max. pressure:	10 bar
Number of cylinders:	2
Boiler volume:	50 litres
Capacity:	350 litres

### 3.4 System identification

Each dust collector is tested in the factory by the manufacturer and is issued with a test report containing its individual machine no. This document is enclosed with the delivery, in a separate folder.

## 4 Connections

### 4.1 Pneumatic connection

#### 4.1.1 Degree of compressed air treatment



If the requirements described in this chapter are not followed, this may void the guarantee !

A pneumatic system may only be operated using properly treated compressed-air. In addition to the technical data sheets for the respective product, the listed values must also be complied with.

Compressed-air treatment in accordance with DIN ISO 8573-1			
Class	Solids (particle size)	Moisture content (pressure dew point)	Oil content (oil concentration)
1	0.1µm	-70°C	0.01mg/m
2	1µm	-40°C	0.1mg/m
3	5µm	-20°C	1mg/m
4	15µm		
5		+7°C	25mg/m

\*. minimum requirement

Solids value: here the size and the associated concentration are achieved by means of the filter pressure regulator with water separator, which is part of the collection system's scope of delivery.

Installation position: as close as possible to the compressed air consumer.

The oil content value is only considered if a worn compressor contaminates the compressed air with oil. The pneumatic components are provided with lifetime lubrication, making it unnecessary to oil the compressed air. However, should the compressed air system ever be operated with oil, it is necessary to continue doing so.

### 4.1.2 Compressed air supply

The compressed air is supplied by a compressor unit.



Centralising the compressed-air supply for several buildings is disadvantageous and can result in water condensation which arises because compressed-air lines are laid in different areas subject to different temperatures. The condensate can wash out the lifetime lubrication and lead to corrosion and damage.



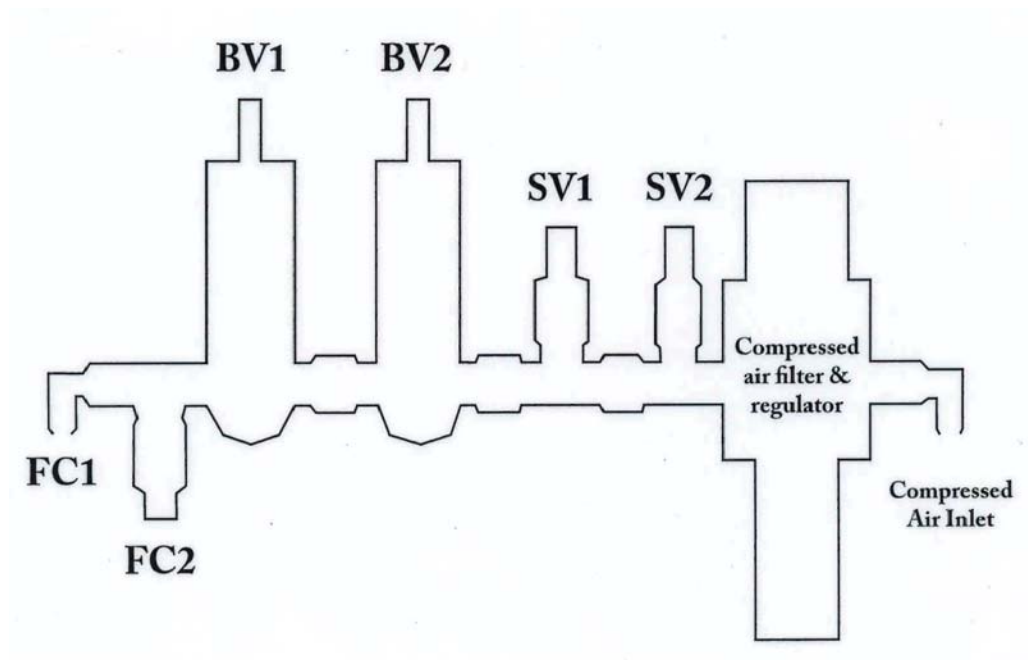
So that no fodder-dust, ammonia gases and/or acidic gases get into the compressed-air system, the compressed-air supply must be located in an independently ventilated machine room.



Refer to the operating instructions supplied when connecting and adjusting for operation.

### 4.1.3 Connecting the pneumatic system

Connect the individual components of the semi-automatic dust collection system with a 6/4mm ring line, in accordance with the connection diagram.



FC1 = Filter cleaning, Separator 1

FC2 = Filter cleaning, Separator 2

BV1 = Weighing valve, Separator 1

BV2 = Weighing valve, Separator 2

SV1 = Slide valves, Separator 1

SV2 = Slide valves, Separator 2

Compressed air filter & regulator = Filter pressure regulator

Compressed air inlet = Compressor



Check all hose connections and set the operating pressure on the pressure regulator to 6 bar.



## 4.2 Electrical connection



All work involved may only be carried out by authorized personnel and under consideration of the established regulations (e.g. VDE)!

Connect the electric connection cables according to the terminal connection plan. The connection must be carried out by means of a durable and safe bonding. All cable and tubes have to be protected against damages during operation.

Before closing the terminal box, make sure to check

- that all connections are tightened
- that the inside of the terminal box is clean and free of foreign matter
- that unused cable admissions are closed and the locking screws are tightened.
- that no wiring and cables protrude and are in danger to get squashed.



Connect the Semi-automatic dust collection system in accordance with the enclosed electrical connection diagram.

Should documents be missing or be no longer legible after use, request a copy from **Big Dutchman** immediately.

## 5 Operation

### 5.1 Operation

Check the function of the semi-automatic dust collection system by pressing the leftmost button on the switch box.

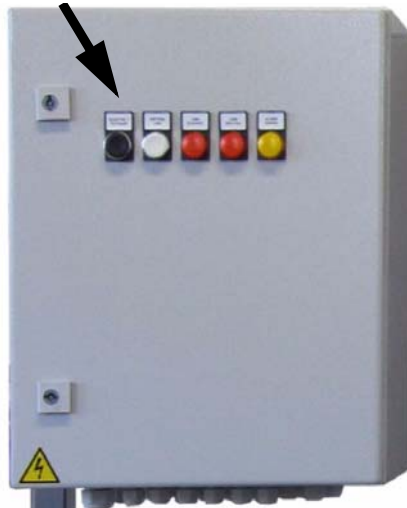


Figure 5-1: Switch box

### 5.2 Cleaning the StuffNix dry dust filter



During cleaning, always wear a breathing mask, to protect against dust, and goggles.

To clean the StuffNix dry dust filter with the semi-automatic dust collection system, follow these instructions:

1. Before commencing cleaning of the dry dust filter, switch off the fans of the StuffNix units accordingly.



Clean the filters one after another. Never switch off the whole ventilation system, as adequate ventilation must be provided for the livestock!

2. Check the fill level of the dust collection container for sufficient free capacity. If it is 2/3 full, replace or empty it.
3. Insert the hose of the vacuuming system into the flap valve of the central suction line. This starts up the vacuuming system automatically.

4. Begin the cleaning process on the in-flow side, in front of the dry dust filter surfaces. Vacuum the surface of the filter evenly from top to bottom. Also clean the floor in front of the StuffNix (see figure 5-3).
5. Then clean the back of the filter walls and the floor, as this is where the majority of the filtered dust is deposited. Proceed, once more, systematically from top to bottom.

In addition, the flaps of the mounting profile (H-profile) must be opened, and dust in the collecting channels vacuumed out.

6. If a dust collection system with only a single separator is installed, it will be necessary to stop for cleaning during vacuuming, depending on the filter cartridge's automatic cleaning function. This break will last roughly two minutes (depending how long it takes to fill the pressure tank for the three pressure surges).

If a system with two separators is installed, no interruptions are necessary (unless a dust collection container is full and needs to be replaced or emptied).

7. After completing the task, switch the relevant fans back on and perform a visual check of its function.



Figure 5-2: Cleaning the StuffNix



Figure 5-3: Cleaning the floor



## 6 Maintenance and cleaning

### 6.1 Important information

The interval for periodic maintenance of the semi-automatic dust collection system is dependent upon the amount of dust being filtered. Pay attention to the following instructions on maintenance and servicing work:

- Before performing maintenance and servicing work, disconnect the power supply (with the exception of the manual blow-back of the filter).
- Clean the filter with a frequency determined by intensity of use and the consistency of the dust. We recommend cleaning (blow-back) of the filter cartridge at least once a week.
- Replace the filter cartridge (see chapter 6.2 "Replacing the filter", page 22) at least once a year (more often for more intensive use). To assist in this, check the filter cartridge at least once a month.
- It is essential to replace the filter if even the slightest sign of damage is detected.
- The dust collection container (e.g. big bag) must not be filled higher than 2/3. Upon reaching this point, it must be emptied or replaced (see chapter 6.3 "Changing the dust collection container", page 23). When replacing the dust collection container, check that the openings for the cooling air supply to the motor are not blocked by raised up dirt particles or similar.
- The semi-automatic dust collection system is not intended for collecting liquids. Should liquids nevertheless get into the system, carefully dismantle and dry it.
- It is vital to pay attention to safety regulations regarding the vacuum turbine and the electric motor, and the manufacturer's operating instructions (enclosed in a separate folder).



Any intervention, servicing work, or repair on the electrical system and the vacuum pump may only be carried out by a specialist.

## 6.2 Replacing the filter



When replacing the filter, wear a breathing mask! Treat both new and used filters with great care. Even the slightest damage and the smallest of holes in the filter can cause damage to the vacuum pump! A used filter may be tainted with noxious dust. Therefore, the filter should be placed immediately and with care into an air-tight plastic bag. Provide the bag with an air-tight seal. Only use Centraction filters.

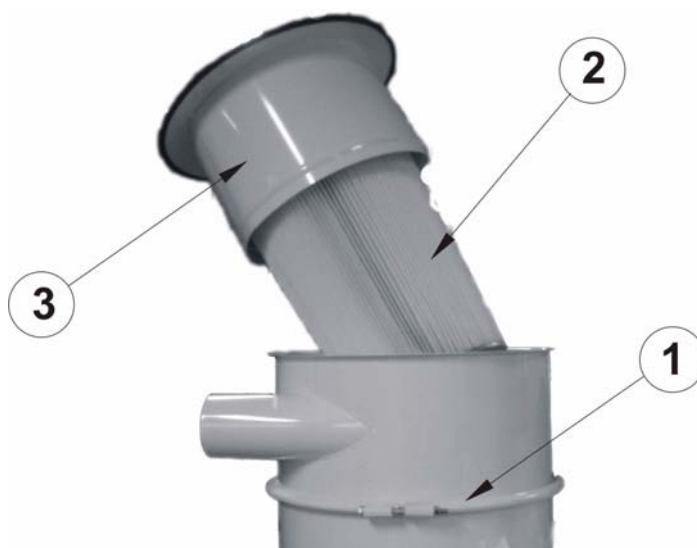


Figure 6-1: Replacing the filter

1. Set the rotary switch to position "0". Disconnect the power supply from the mains to the semi-automatic dust collection system.
2. There is a rubber connection hose between the upper section of the filter housing and the pipe to the vacuum pump.  
Undo the hose clamp on this connection hose and remove the hose from the filter housing.
3. Undo the two pins of the clamp fastener (figure 6-1, item 1) on the upper section of the filter housing.
4. Carefully remove the upper section of the filter housing.
5. **Carefully** lift out the filter (figure 6-1, item 2), so that no dust is scattered.
6. Place the filter on the floor, standing on its head. Make sure that no dust is scattered from the filter into the surroundings.
7. Undo the nut on the underside of the filter with a 13 mm screwdriver.

8. Put an air-tight plastic bag over the filter and lift the filter out of the filter bowl (figure 6-1, item 3).
9. Fit a new filter. To do so, reattach the washer and the nut. Tighten the nut until the gap between the filter and filter bowl is approx. 8 mm.
10. Insert the filter back into the filter housing. When doing so, make sure that the seal is properly seated.
11. Refit the upper section of the filter housing. Make sure that it is properly aligned with the rubber hose.
12. Retighten the two pins of the clamp fastener.
13. Reattach the rubber hose, and retighten the hose clamp.

### 6.3 Changing the dust collection container

1. Set the rotary switch to position "0". Disconnect the power supply from the mains to the semi-automatic dust collection system.
2. Undo the belt of the dust collection container.
3. The original Centraction dust bags are equipped with a plastic sealing strip, which is fastened to the top of the dust collection container.  
Seal the dust bag with this plastic strip so it is air-tight.  
If you are not using an original Centraction dust collection container, seal the dust collection container, so it is air-tight, using other suitable means.
4. Carefully lift out the dust collection container in an upwards direction, so that it is not damaged.
5. Fasten in a new dust collection container.



The dust collection container may contain noxious dusts. For this reason, full dust bags must always be properly sealed and handled with care. Only use original dust bags.

## 6.4 Troubleshooting



Troubleshooting must be performed by a specialist.

- **The semi-automatic dust collection system is neither in the “MANUAL” nor the “AUTO” switch position on startup.**
  - Check the mains voltage to the semi-automatic dust collection system.
  - Check if the circuit breaker in the switch cabinet has tripped. If necessary, reset the circuit breaker.
  - Check if the motor circuit breaker has tripped. Reset it if necessary.
  - If one of the circuit breakers should trip when you attempt to start up the machine again, there may be a short-circuit. In this case, check the switch cabinet and the motor before attempting to start the machine again.



Electrical faults may only be rectified by an electrician.

- **The semi-automatic dust collection system only starts in "MANUAL" position**
  - Check if there is a break in the control line between the machine and the suction inlets.
- **The yellow "Filter" lamp lights up (if applicable) on the switch box**
  - Remove the filter and check it for damage (see chapter 6.2, page 22). Replace the filter if it shows signs of damage.
- **The red "Level" lamp lights up on the switch box**
  - Change the dust collection container (see chapter 6.3, page 23).
  - Clean or replace the filters. Clean the lenses in the filter container if the lamp is still lit.

- **Poor suction power**
  - Clean or replace the filter (see chapter 6.2, page 22). If this does not improve the suction power, check the piping for leak-tightness.
- **Noises from the pump**
  - Switch off the power immediately. Contact the supplier of the semi-automatic dust collection system.
- **The dust collection container is sucked up into the filter container**
  - Check if the vacuum hose of the dust container has come loose.
  - Check the dirt filter (in the vacuum hose at the connection to the dust container). If necessary, clean the filter as well as the dust container.
  - Make sure that the dust container is positioned tightly up against the filter housing.



On semi-automatic dust collection systems with two separators, the stated tasks must always be carried out on both filter houses.

## 7 Spare parts

### 7.1 Coded components

Code no.	Description
60-50-0131	Suction unit with one separator, piping and cleaning accessories
60-50-0132	Suction unit with two separators, piping and cleaning accessories
60-50-0125	Connection set for each V-shapes StuffniX module (2 filter units)
60-50-0126	Connection set for 6 m straight wall (2 filter units)
60-50-0127	Pipe, 10 m distance

### 7.2 Replacement parts list

Code no.	Description
60-50-0101	Suction unit with one separator
60-50-0102	Suction unit with two separators
60-50-0115	Pump unit, 4 kW with frequency converter
60-50-0112	BBS filter unit with frame
60-50-0120	Automatic slide valve, NW 76 (without pipe coupling)
20-50-3195	Compressor 350/10/2/50 D
21-00-0875	Standard filter pressure regulator with 1/4" water separator without accessories, 950 l/min
99-40-3565	Plastic, plug-in T-joint for PE hose, 6/4mm
21-00-2182	Mini ball valve for air hose, 6/4 mm, plug-in hose
83-01-5746	Connection nipple G 1/8"-6/4
30-00-3549	Reducer, 1/2" x 1/4", no. 241 MS
60-50-0106	Cleaning accessories for StuffniX dust collection system
60-50-0121	PP big bag, 100 litres, 90x90x135cm with filling and emptying connections
60-50-0118	Hose coupling, NW 50-38
60-50-0117	Industrial suction hose, 38mm, anti-static
60-50-0122	Hand pipe, stainless steel, 38mm, in three sections
60-50-0111	Floor tool for dust collection system
60-50-0119	Crevice tool for dust collection system
60-50-0114	Flap valve with switch 50-50