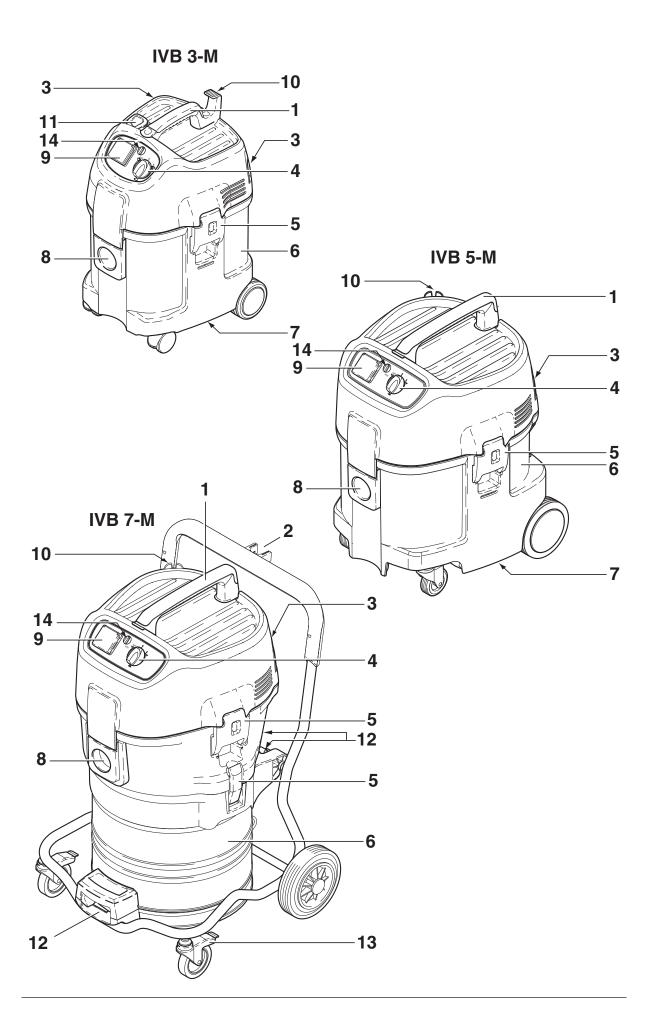
# IVB 3-M/5-M/7-M



Operating Instructions
Betriebsanleitung
Notice d'utilisation
Gebruiksaanwijzing
Istruzioni sull'uso
Driftsinstruks
Bruksanvisning

Driftsvejledning Käyttöohje Navodilo za uporabo Uputstvo za rad Prevádzkový návod Provozní návod Instrukcja obsługi Kezelési utasítás Руководство по эксплуатации Instrucciones de manejo Instruções de operação Οδηγίες λειτουργίας İşletme kılavuzu





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<sup>&</sup>lt;sup>1)</sup> Option depending on model

## 1 Important safety instructions

### Symbols used to mark instructions



Before using the vacuum cleaner, always read the operating instructions and keep them read-

ily available.



This symbol is used to mark safety instructions that must be observed to prevent damage

to the vacuum cleaner and its performance.



This symbol is used to mark safety instructions that must be observed to

prevent damage to persons.



This symbol indicates tips and instructions to

simplify work and to ensure safe operation.

#### For your own safety

Only allow the vacuum cleaner to be used by persons who have been trained in its use and who have been explicitly authorized to use it.

Despite its simple handling the vacuum cleaner is not suitable for children.

The use of the vacuum cleaner is subject to valid national regulations. Besides the operating instructions and the binding accident prevention regulations valid in the country of use, observe recognized regulations for safety and proper use.

Do not use any unsafe work techniques.

#### **Transport**

Before transporting the dirt tank, close all the locks.

Do not tilt the cleaner if there is liquid in the dirt tank.

Do use a crane hook to lift the cleaner.

#### Purpose and intended use

The vacuum cleaners described in this operating manual are suitable for

- commercial use, e.g. in hotels, schools, hospitals, factories, shops, offices and rental businesses.
- for separation of dust with an exposure limit of greater than 0,1 mg/m³, (dust class M).

The following materials should not be picked up by the vacuum cleaner:

- hot materials (burning cigarettes, hot ash, etc.)
- flammable, explosive, aggressive liquids (e.g. petrol,

- solvents, acids, alkalis, etc.)
- flammable, explosive dust (e.g. magnesium or aluminium dust, etc.)

When dust removers are used, the rate at which air is exchanged in the room must be adequate if the exhaust air from the vacuum cleaner is blown into the room (please observe regulations valid in your country).

Before starting work, the operating staff must be informed on

- use of the vacuum cleaner
- risks associated with the material to be picked up
- safe disposal of the picked up material.

<sup>1)</sup> Option depending on model

Dust Class M (medium).
The dusts which belong to this class are: dusts with OEL values ≥ 0.1 mg/m³ as

well as saw dust. The machine is

tested in its entirety by vacuums for this dust class. The maximum degree of permeability is 0.1% and the disposal must be low dust.

Precautions and safety regulations when using the vacuum cleaner

#### Before start-up

Inspect power cord regularly to detect signs of damage, e.g. cracks or ageing.

If the power cord is damaged, it must be replaced by Nilfisk Advance Service or an electrician to avoid danger before use of the vacuum cleaner is continued.

Use only the type of power cord specified in the operating manual.

Do not damage the power cord (e.g. by moving over it or pulling or crushing it).

Disconnect the power cord by pulling the plug only (do not pull or tug the power cord).

Inspect the vacuum cleaners to ensure that they are in proper condition. Plugs and couplings in power cords must at least have splash protection.

Never use the vacuum cleaner if the filter element is damaged.

#### Picking up liquids

If foam develops or liquid emerges, stop work immediately and empty the dirt tank.

Regularly clean the built in float (IVB 3-M) and level indicator hose (IVB 5-M/7-M) to limit the water level and check that they are not damaged.

See section 5 for information on handling liquids and (hazardous) dust.

#### **Electrical components**

Check the rated voltage of the vacuum cleaner before connecting it to the mains supply system. Ensure that the voltage shown on the rating plate corresponds to the voltage of the local mains power supply.

If you are using an extension cord, use only those specified by the manufacturer or higher quality ones (see section 9.4 "Technical data").

It is recommended that the vacuum cleaner should be connected via a residual current circuit breaker. This stops the supply of electricity if the leakage current to earth exceeds 30 mA for 30 ms or it has an earth tester circuit.

When using an extension lead, check the minimum cross-sections of the cable:

Cable length	Cross	section
m	<16 A	<25 A
up to 20 m	ø1.5mm²	ø2.5mm²
20 to 50 m	ø2.5mm²	ø4.0mm²

Arrange the electrical parts (sockets, plugs and couplings) and lay down the extension lead so that the protection class is maintained.

Never spray water on to the upper section of the vacuum cleaner. Danger for persons, risk or short-circuiting.

Observe the latest edition of the IEC regulations.

<sup>1)</sup> Option depending on model

#### **Tool socket**

Use the socket on the vacuum cleaner for the purpose defined in the operating instructions only.

Before plugging an appliance into the appliance socket:

- Switch off the vacuum cleaner
- 2. Switch off the appliance to

be connected.

#### **CAUTION!**

Follow the operating instructions and safety instructions for appliances connected to the power tool socket.

### Maintenance, cleaning and repair

Only carry out maintenance work described in the operating instructions.

Always pull out the mains plug before cleaning and maintenance of the vacuum cleaner.

During maintenance and cleaning, handle the vacuum cleaner in such a manner that there is no danger for maintenance staff or other persons.

In the maintenance area

- use filtered compulsory ventilation
- wear protective clothing
- clean the maintenance are so that no harmful substances get into the surroundings.

Before removing the vacuum cleaner from the area contaminated with harmful substances:

- clean the outside of the vac-

uum cleaner, wipe it clean or pack the vacuum cleaner in well sealed packaging

and avoid spreading deposited harmful dust.

During maintenance and repair work all contaminated parts that could not be cleaned satisfactorily must be:

- packed in well sealed bags
- disposed of in a manner that complies with valid regulations for such waste removal

A dust test must be performed at least once every year by Nilfisk Advance service or a trained person. This test includes, for example, whether there is damage to the filter, the vacuum cleaner is sealed to the air and the control equipment works properly.

#### Accessories and spare parts

Use only the brushes supplied with the vacuum cleaner or specified in the operating manual. The use of other brushes can adversely affect safety.

Use only original Nilfisk Advance accessories and spare parts (see section 9.5). The use of other parts can adversely affect safety.

# 2 Description

### 2.1 Purpose

This cleaner is suitable to pick up dry, nonflammable dust, liquids, sawdust and hazardous dusts with maximum room concentration values  $\geq$  0.1 mg/m³ (dust class M).

Depending on how hazardous the dust is, the cleaner must be fitted with appropriate filters. See table in section 5.1.1.

#### 2.2 Operating elements

See fold-out page at the front of these operating instructions.

- 1 Handle
- 2 Suction pipe support
- 3 Accessory holder
- 4 Applicance switch with suction power control
- 5 Retaining clamp

- 6 Dirt tank
- 7 Grip to empty tank1)
- 8 Inlet fitting
- 9 Appliance socket<sup>1)</sup>
- 10 Cable hook
- 11 Operating knob for filter cleaning<sup>1)</sup>
- 12 Tank locks1)
- 13 Castor with brake
- 14 Hose diameter setting

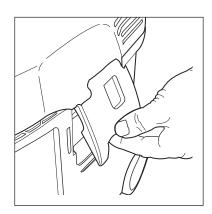
### 3 Before start-up

#### 3.1 Assembling the cleaner



On delivery some of the accessories are lying in the tank and must be removed before the vacuum cleaner is used for the first time. Remove the upper section of the vacuum cleaner:

The mains plug should not be inserted into a socket.



- 1. Open the retaining clamps and lift off the upper section of the cleaner.
- Take the accessories out of the dirt tank and the packaging.

To pick up dust with maximum room concentration values:

Insert the filter bag into the dirt tank according to the instructions (instructions included).

To pick up harmless dust: Insert the disposal bag (instructions included) into the tank.

**IMPORTANT**: Press the filter bag connection firmly on to the inlet fitting.

4. Fit the upper section of the vacuum cleaner and close the retaining clamps.

**NOTE**: Ensure that the retaining clamps fit properly.

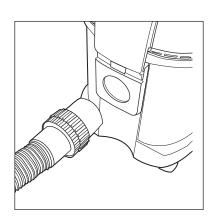
# 4 Operation

#### 4.1 Connections

### 4.1.1 Connecting the suction hose



The suction hose diameter must suit the position of the switch in order to pick up dry, nonflammable dust with maximum room concentration values.



1. Connect the suction hose.

#### 4.1.2 Electrical connection

The operating voltage shown on the rating plate must correspond to the voltage of the mains power supply.

- 1. Ensure that the vacuum cleaner is switched off.
- Insert the power cord into a properly installed and fused socket with an earthing contact.

<sup>1)</sup> Option depending on model

### 4.1.3 Connecting electrical appliances

To comply with regulations, only approved dust producing tools should be connected.

The maximum power consumption of the connected power tool is stated in section 9.4 "Technical data".

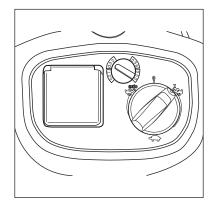
- 1. Ensure that the electrical appliance is switched off.
- 2. Connect the electrical appliance to the appliance socket on the control panel.

### 4.2 Switching on the vacuum cleaner

### 4.2.1 Switch position "I"

The hose diameter and the setting for the suction hose diameter must be the same.

Hose	Hose diameter
Ø	setting
ø27	ø27
ø32	ø32
ø38	ø38
ø50	ø50



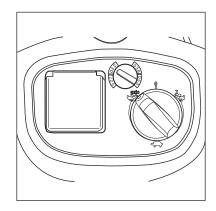
1. Turn the switch to position "I".

The vacuum cleaner motor starts.

#### 4.2.2 Switch position "auto"

The hose diameter and the setting for the suction hose diameter must be the same.

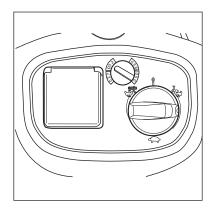
Hose diameter
setting
ø27
ø32
ø38
ø50



Before switching the switch to position "auto", ensure that the tool connected to the appliance socket is switched off.

- 1. Turn the switch to position "auto". The vacuum cleaner motor starts when the connected appliance is switched on.
- When the power tool is switched off the vacuum cleaner continues to run for a short moment so that any dust in the suction hose is conveyed to the safety filter bag.

#### 4.2.3 Suction power control



The motor speed and the suction power can be varied with the suction power control. This allows precise adaptation of the suction power for different cleaning tasks.

### 4.3 Check volume flow monitor

Before picking up dust with maximum room concentration values:

- 1. Check that all the filters are present and properly fitted.
- When the motor is running, hold the suction hose shut. An acoustic warning sounds after approx. 1 second.

<sup>1)</sup> Option depending on model

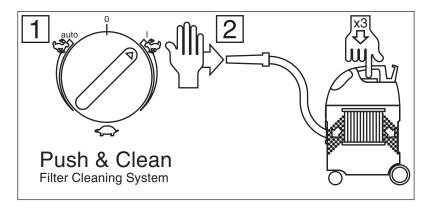
#### 4.4 Acoustic warning

For safety reasons, an acoustic warning sounds if the air speed in the suction hose drops to below 20 m/s. See section "Troubleshooting".

### 4.5 Cleaning the filter element (IVB 3-M)



If the acoustic signal sounds again after repeated cleaning, replace the filter element (see section 7.2.5).



Only after picking up harmless dust using the waste bag.

If suction performance drops:

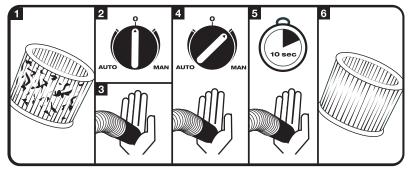
- Set the suction power to maximum.
- 2. Close the nozzles or suction hose opening with the palm of your hand.

3. Press the button to start filter cleaning three times. The resulting stream of air removes attached dust from the slats of the filter elements.

# 4.6 Cleaning the filter element (IVB 5-M/7-M)



To ensure that suction performance is always at its best, the filter element is automatically cleaned during operation. We recommend complete cleaning if the filter element becomes extremely dirty.



After picking up harmless dust using the waste bag.

- Switch off the vacuum cleaner
- 2. Close the nozzles or suction hose opening with the palm of your hand.
- Turn the switch to position "I" and let the cleaner operate for approx. 10 seconds with the suction hose opening closed.

<sup>1)</sup> Option depending on model

# 5 Applications and techniques

#### 5.1 Techniques

If used correctly, additional accessories, suction nozzles and suction hoses can enhance the cleaning action and reduce the cleaning effort.

Effective cleaning is achieved if you follow just a few guidelines in combination with your own practical experience in special fields.

Here are some basic tips.

### 5.1.1 Picking up dry substances



Do not pick up flammable substances.

The suction hose diameter must suit the position of the switch in order to pick up dry, nonflammable dust with maximum room concentration values.

There must always be a safety filter bag in the tank before dry substances with maximum room concentration values are picked up. See section 9.5 "Accessories" for ordering number.

To pick up harmless dust we recommend the use of a waste bag. See section 9.5 "Accessories" for ordering number. Dis-

posal of the picked up material is then simple and hygienic.

After picking up liquids, the filter element is wet. A damp filter element clogs more quickly when dry substances are picked up. For this reason the filter element should be washed and dried or replaced by a dry element before dry substances are picked up.

Always use a filter bag/waste bag that is suitable for the type of dust (see table):

IVB 3-M									
Type of dust		Filter bag/waste bag	Handling/waste disposal						
Nonhazardous dust		Vaste bag No. 302001310	<ol> <li>Thorough cleaning - see section 4.5.</li> <li>Waste disposal - see section 7.2.1</li> </ol>						
Dust with MAC values ≥ 0.1 mg/m³     wood dust	ا استلا	Filter bag No. 302000565	Waste disposal - see section 7.2.2						

IVB 5-M / 7-M								
Type of dust		Filter bag/waste bag	Handling/waste disposal					
<ul> <li>Nonhazardous dust</li> <li>Dust with MAC values ≥ 0.1 mg/m³</li> <li>Observe any additional national regulations</li> </ul>		Waste bag IVB 5-M: No. 302001311 IVB 7-M: No. 302001480	Waste disposal: 1. Remove hose with tool sleeve from tool 2. Thorough cleaning - see section 4.6 3. Waste disposal - see section 7.2.1					
<ul> <li>Dust with MAC values ≥ 0.1 mg/m³</li> <li>wood dust</li> </ul>		Filter bag IVB 5-M: No. 302001138 IVB 7-M: No. 302001909	Waste disposal - see section 7.2.2					

### 5.1.2 Picking up liquids

Do not pick up flammable

substances.

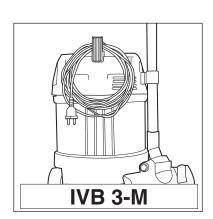
Before liquids are picked up, always remove the filter bag/ waste bag and check that the float (IVB 3-M) or the water level limit (IVB 5-M/7-M) works properly. (See section 7.2.5 and 7.2.6 "Replacing the filter element".)

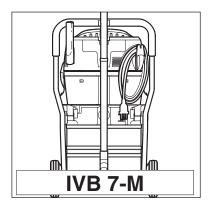
The use of a separate filter element or filter screen is recommended. If foam appears, stop work immediately and empty the tank.

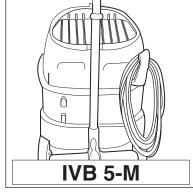
To reduce the amount of foam, use foam killer Nilfisk-Alto Foam Stop (see section 9.5 "Accessories" for order number).

# 6 After finishing work

6.1 Switching the vacuum cleaner off and storage







- After picking up hazardous dust, vacuum clean the outside of the cleaner.
- Switch off the vacuum cleaner and pull the mains plug out of the socket.
- 3. Wind up the power cord and hang it on the handle.
- 4. Empty the tank and clean the vacuum cleaner.
- After picking up liquids: Store the upper section of the cleaner separately so that the filter element can dry.
- Store the vacuum cleaner in a dry room where it is protected from unauthorized use.

<sup>1)</sup> Option depending on model

### 7 Maintenance

### 7.1 Maintenance plan

		After finishing work	As required
7.2.1	Replacing the waste bag		•
7.2.2	Replacing the filter bag		•
7.2.3	Emptying dirt tank (IVB 3-M/5-M)	•	
7.2.4	Emptying the dirt tank (IVB 7-M)	•	
7.2.5	Replacing filter element (IVB 3-M)		•
7.2.6	Replacing filter element (IVB 5-M/7-M)		•

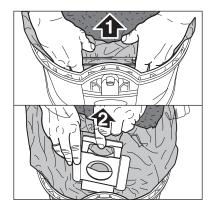
# 7.2 Maintenance work7.2.1 Replacing the waste bag



When using IVB 3-M/5-M/7-M clean them thoroughly before replacing the waste bag - see sections 4.5 bzw.4.6.



During the following work, ensure that dust is not unnecessarily spread around. Wear a P2 breathing mask.

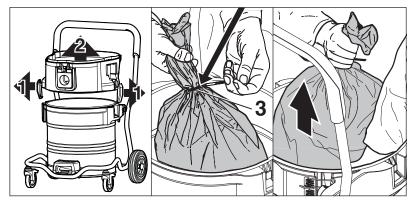




#### IVB 3-M/5-M:

- 1. Open the retaining clamps and remove the upper section of the cleaner from the dirt tank.
- Carefully remove the waste bag connection (1) from the inlet fitting.
- 3. Close the waste bag connection with the slide (2).
- 4. Close the waste bag using the cable binder (3).
- 5. Dispose of the dirt in accordance with legal regulations.
- 6. Insert a new filter bag into the cleaned tank as described in the instructions enclosed.

**IMPORTANT:** Press the filter bag connection firmly on to the inlet fitting.



#### **IVB 7-M:**

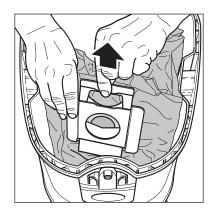
- 1. Remove the upper section of cleaner from the dirt tank.
- Open the retaining clamps (1) and remove the intermediate ring (2) from the tank.
- 3. Carefully remove the waste bag connection from the inlet fitting.
- 4. Close the waste bag using the cable binder (3).
- 5. Dispose of the dirt in accordance with legal regulations.
- 6. Insert a new filter bag into the cleaned tank as described in the instructions enclosed.

**IMPORTANT:** Press the filter bag connection firmly on to the inlet fitting.

#### 7.2.2 Replacing the filter bag



During the following work, ensure that dust is not unnecessarily spread around. Wear a P2 breathing mask.



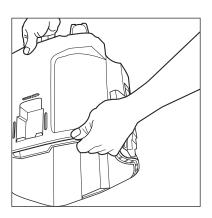
- Open the retaining clamps and english remove the upper section of the cleaner from the dirt tank.
- 2. Carefully remove the filter bag connection from the inlet fitting.
- 3. Close the filter bag connection with the slide.
- 4. Dispose of the filter bag in accordance with legal regulations.
- Place a new filter bag into the cleaned tank as described in the instructions (printed on the filter bag)

**IMPORTANT:** Press the filter bag connection on the inlet fitting as far as possible.

### 7.2.3 Emptying dirt tank (IVB 3-M/5-M)



Only after picking up harmless dust without a filter bag.



- 1. Remove the upper section of cleaner from the dirt tank.
- 2. Using one hand, take hold of the dirt tank underneath and tip out the dirt.
- 3. Dispose of the dirt in accordance with legal regulations.
- Clean the rim of the tank before fitting the upper section of cleaner.

Before reinserting the suction hose:

Clean the inlet fitting and hose collar

### 7.2.4 Emptying the dirt tank (IVB 7-M)



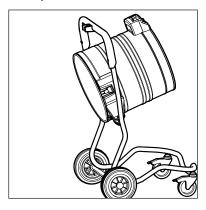
Only after picking up harmless dust without a filter bag.

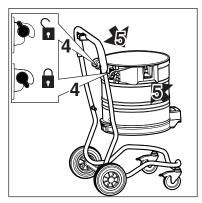


To empty the dirt tank after picking up liquids: remove

the intermediate ring as a proper seal is only ensured during suction. After emptying the tank: clean the rim of the tank and the seals in the intermediate ring and the upper section of cleaner before refitting them.

If the seal or groove is dirty or damaged, the suction performance will





be reduced. Before reinserting the suction hose: clean the inlet fitting and hose collar.

- 1. Remove the upper section of cleaner from the dirt tank.
- Open the retaining clamps
   and remove the intermediate ring (2) from the tank.
- 3. Pull the lever in the handle (3) upwards and tilt the tank.
- 4. Tip out the collected dirt.
- 5. Dispose of the dirt in accordance with legal regulations.

#### or:

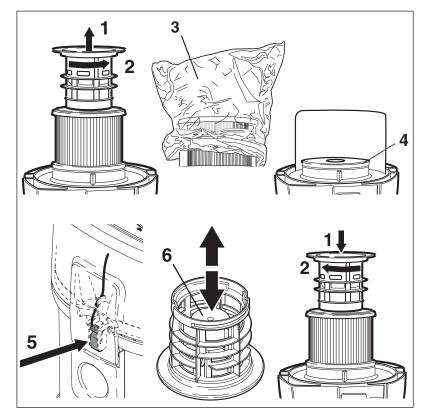
- 3. Open the tank locks (4).
- 4. Use the handles (5) to lift the tank out of the frame.
- 5. Tip out the collected dirt.
- 6. Place the empty tank in the frame and close the locks (4).
- 7. Dispose of the dirt in accordance with legal regulations.

<sup>&</sup>lt;sup>1)</sup>Option depending on model

### 7.2.5 Replacing filter element (IVB 3-M)



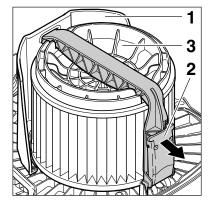
During the following work, ensure that dust is not unnecessarily spread around. Wear a P2 breathing mask.

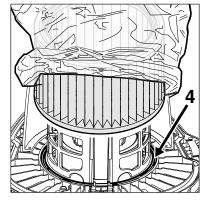


7.2.6 Replacing filter element (IVB 5-M/7-M)



During the following work, ensure that dust is not unnecessarily spread around. Wear a P2 breathing mask.





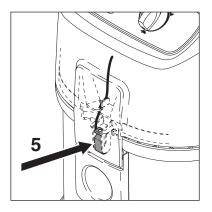
- Open the retaining clamps and remove the upper section of the cleaner from the dirt tank. Lay the upper section of the cleaner down with the filter element facing upwards.
- 2. Turn the filter holder anticlockwise (1) and remove it (2).
- 3. Place the protective filter bag<sup>1)</sup> over the filter element (3).
- 4. Carefully remove the filter element and close the protective filter bag with a knot.
- Clean the filter seal (4). Check it for damage and replace it if necessary.
- Check the antistatic clamp (5) for damage and have it replaced by Nilfisk Advance Service if necessary.
- 7. Fit a new filter element.
- 8. Check that the float (6) works properly. When the filter holder is turned, the float inside must move about easily.
- 9. Fit the filter holder and turn it clockwise to secure it firmly.
- Dispose of the used filter element in accordance with legal regulations.

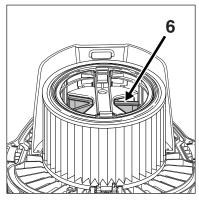


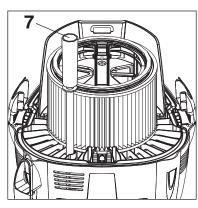
Never use the vacuum cleaner without a filter.

- Open the retaining clamps and remove the upper section of the cleaner from the dirt tank. Lay the upper section of the cleaner down with the filter element facing upwards. Do not place the upper section of the cleaner on the guard (1) and do not damage the filter element.
- 2. Open the bar handle (2) and remove it.
- Remove the filter holder (3).
- 4. Place the protective filter bag <sup>1)</sup> over the filter element.
- 5. Carefully remove the filter element and close the protective filter bag with a knot.
- Clean the filter seal (4).
   Check it for damage and replace it if necessary.

<sup>1)</sup> Accessory. Order No. shown in section 9.5.







- 7. Check the antistatic clamp (5) for damage and have it replaced by Nilfisk Advance Service if necessary.
- Check that the control flap (6) for filter cleaning works properly. The control flap should move back and forwards easily.
- 9. Clean the level hose (7).
- 10. Fit a new filter element.
- 11.Fit the filter holder. Ensure that it is in the correct position.
- 12. Fit bar and close bar handle.
- 13.Dispose of the used filter element in accordance with legal regulations.



Never use the vacuum cleaner without a filter.

# 8 Troubleshooting

	Fault		Cause		Remedy
‡	Motor does not start	>	Fuse of the mains socket has blown.	•	Connect mains fuse.
		>	Overload protection switch has tripped.	•	Switch off the vacuum cleaner and allow it to cool for approx. 5 minutes. If the cleaner cannot be started again, contact the Nilfisk Advance service department.
		>	Self-acting carbon brush is worn.	•	Have carbon brushes changed by Nilfisk Advance Service.
‡	Motor does not run in automatic mode	>	Power tool is defective or not connected properly.	•	Check that the power tool works or that the plug is inserted correctly.
		>	The power rating of the electrical tool is too low.	•	Note that minimum power rating is P>40W
‡	The acoustic warning sounds. (Reduced suction power)	>	Suction power selected with suction power control is too low.	•	Set suction power in accordance with section 4.2.3. "Setting suction power".
		>	Hose diameter and switch position do not correspond.	•	Set correct switch position for hose diameter.
		>	Clogged suction hose/nozzle.	•	Clean suction hose/nozzle
		>	Filter bag is full.	•	See section 7.2.2 "Replacing filter bag".

<sup>1)</sup> Option depending on model

<sup>&</sup>lt;sup>1)</sup> Accessory. Order No. shown in section 9.5.

	Fault		Cause		Remedy
‡	The acoustic warning sounds. (Reduced suction power)	>	Filter element is clogged.	•	See section 4.5/4.6 "Cleaning filter element" and 7.2.5/7.2.6 "Replacing filter element".
		>	IVB 5-M/7-M only: Defective cleaning mecha- nism	•	Contact Nilfisk Advance Service
‡	No suction power during wet cleaning	>	Tank is full. (Float does not close the suction opening).	•	Switch off the cleaner. Empty the tank.
‡	The vacuum cleaner switches off during wet cleaning	>	Tank is full.	•	Switch off the cleaner. Empty the tank.
‡	Voltage fluctuations	>	Impedance of power supply is too high.	•	Connect the cleaner to another socket closer to the fuse box. Voltage fluctuations over 7% should not occur if the impedance at the transfer point is $\leq 0.15~\Omega$ .

### 9 Further information

### 9.1 Recycling the vacuum cleaner



Make the old cleaner unusable immediately.

 Unplug the cleaner and cut the power cord.

Do not discard of electrical appliances with household waste.

As specified in European Directive 2002/96/EC on old electrical

and electronic appliances, used electrical goods must be collected separately and recycled ecologically.

Contact your local authorities or your nearest dealer for further information.

#### 9.2 Guarantee

Our general conditions of business are applicable with regard to the guarantee. Subject to change as a result of technical advances.

#### 9.3 Tests and approvals

The vacuum cleaners have been tested as specified in IEC/EN 60335-2-69 including appendix AA. All the requirements were fulfilled for equipment in dust class M.

The vacuum cleaners must be inspected regularly in accordance with national accident prevention regulations (in Germany as specified in BGV A2 and DIN VDE 0701 Part 1 and Part 3, at regular intervals and after repairs or modifications).

A dust test must be performed at least once every year by the manufacturer or a trained person. This test covers, for example, whether there is damage to the filter, the vacuum cleaner is sealed to the air and the control equipment works properly.

### 9.4 Technical data

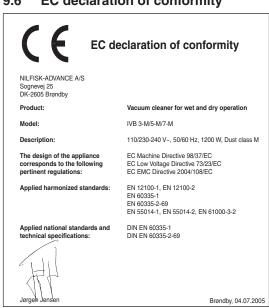
IVB										
		3-M 5-M				7-M				
		EU	GB 230/240V	GB 110V	EU	GB 230/240V	GB 110V	EU	GB 230/240V	GB 110V
Voltage	٧	230	230/240	110	230	230/240	110	230	230/240	110
Mains frequency	Hz					50/60				
Fuse	Α	16	13	1	6	13	1	6	13	16
Power consumption	W					1200				
Connected load for appliance socket	W	2400	1800	560	2400	1800	560	2400	1800	560
Total connected load	W	3600	3000	1760	3600	3000	1760	3600	3000	1760
Air flow rate	l/min					3600				
Vacuum	mbar/kPa	230/23								
Measurement area sound pressure level at a distance of 1 m, EN 60704-1	dB(A)		62	60						
Sound level	dB(A)		59				5	7		
Power cord: Length	m					7.5				
Power cord: Type		H05RR-	- F3G1.5	H07BQ- F3G1.5	H05RR-	F3G1.5	H07BQ- F3G1.5	H05RR-	F3G1.5	H07BQ- F3G1.5
Protection class						I				
Type of protection (splash water protected)		IP X4								
Radio interference level					Е	N 55014-	1			
Tank volume	I		27		45			70		_
Width	mm		380		476			580		
Depth	mm		390		506			605		
Height	mm	570 655 970			970					
Weight	kg		10			14			27	

Suction hose diameter mm	Minimum air flow volume I/min	Associated negative pressure between suction hose/tool Pa
27	690	16300
32	970	15700
38	1360	13900
50	2360	7800

### 9.5 Optional Accessories

Description	Order No.				
	3-M	5-M	7-M		
Filter bag (5 pcs.)	302000565	302001138	302001909		
Waste bag (5 pcs.)	302001310	302001311	302001480		
Filter element	302000461	30200	00726		
Cloth insert filter	302001370	302001371			
Protective filter bag (10 pcs.)		30082			
Filter screen	15475 –				
Nilfisk-Alto-Foam- Stop (6 x 1 l)	8469				

### 9.6 EC declaration of conformity



<sup>1)</sup> Option depending on model





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