# ATTIX 751-61 - ATTIX 751-71 -ATTIX 19 GALLON AE -Instructions for use









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## **1** Safety instructions

Symbols used to mark instructions



Before using the vacuum cleaner. always read the operating instructions and keep them readily available.

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

For your own safety

## WARNING

This appliance is not intended for use by persons (including children) with reduced physical. sensory or mental capabilities or lack of experience and knowledge.

Children shall be supervised to make that sure they do not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

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

to the vacuum cleaner and its performance.



This symbol indicates tips and instructions to simplify work and to ensure safe operation.

**Operators** shall be adequately instructed on the use of these machines. • Only use the socket outlet on the machine for specifi purposes ed in the instructions.

The use of the vacuum cleaner is subject to valid national regulations. Besides the operating instructions binding and the prevenaccident regulations tion valid in the country of use, observe recognized regula-



### Transport

### Purpose and intended use



This machine is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental

tions for safety and

Do not use any

unsafe work tech-

This machine shall be stored

· Clean the water level limiting

device regularly and examine

Switch off the appliance and dis-

connect the mains plug in the

Prior to cleaning and ser-

Prior to replacing compo-

Before transporting the dirt tank,

close all the locks. Do not tilt

the appliance if there is liquid

in the dirt tank. Do not use a

it for signs of damage.

following situations:

vicing

nents

proper use.

niques.

CAUTION

indoors only.

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

crane hook to lift the appliance. Handle the appliance with care during transport.

- dry, damp or hazardous dust and materials
- hot materials (burning cigarettes, hot ash, liquids over 45 °C, etc.)
- flammable, explosive, aggressive liquids (e.g. petrol, solvents, acids, alkalis, etc.)
- flammable, explosive dust (e.g. magnesium or aluminium dust, etc.)

**Precautions and safety** regulations when using the vacuum cleaner

#### **Before start-up**

businesses.

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

## DANGER

If the supply cord service damaged, is must be replaced persons in order to by Nilfisk, a Nilfisk-

agent or it similarly qualified avoid a hazard.

Prior to changing over the

If foam develops or liquid

Always place the machine on a

The use of the vacuum cleaner is subject to valid national regu-

lations. Besides the operating

instructions and the binding ac-

cident prevention regulations

valid in the country of use, ob-

serve recognized regulations for

Do not use any unsafe work

appliance

emerges

solid base during use.

safety and proper use.

techniques.

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

	Use only the type of power cord specified in the operating man- ual. Do not damage the power cord (e.g. by moving over it or pulling or crushing it). Inspect the vacuum cleaners to ensure that they are in proper condition. Disconnect the power cord by pulling the plug only (do not pull or tug the power cord).	Make sure to install the vacuum cleaners with IP68 plug and socket properly, i.e; inscrew the cap, connect the plug into the socket, and tighten the locking ring. Please repeat in the re- verse order when disconnecting Never use the cleaner if the filter sieve is damaged.	
Picking up liquids	If foam develops or liquid emerg- es, stop work immediately and empty the dirt tank. Before picking up liquids, check the function of the water level	limiter (hose for automatic level control). You can find information on han- dling liquids in Chapter 5.	
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-sec- tions of the cable: <a href="tau"></a> <a href="tau">Cable length</a> <a href="tau">Cross section</a> <a href="tau">m</a> <a href="tau"><a href="tau">tau to 20 m</a><a href="tau">al.6 A</a><a href="tau">20 to 20 m</a><a href="tau">al.5mm²</a><a href="tau">20 to 50 m</a><a href="tau">al.5mm²</a><a href="tau">d4.0mm²</a><a href="tau">tau to 50 m</a><a href="tau">al.5mm²</a><a href="tau">d4.0mm²</a><a href="tau">tau to 50 m</a><a href="tau">d2.5mm²</a><a href="tau">d4.0mm²</a><a href="tau">tau to 50 m</a><a href="tau">down the extension lead</a><a href="tau">tau to tau tot tau to tau to tau to tau to tau to ta</a></a>	
Submerged pump socket	The submerged pump IP68 socket is designed as the mains supply to the internal pump. Make sure to switch off the	vacuum cleaner before plug- ging in the pump.	
Maintenance, cleaning and repair	Only carry out maintenance work described in the operating instructions.	Always pull out the mains plug before cleaning and mainte- nance of the vacuum cleaner.	



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 accessories and spare parts (see section 9.5). The use of other parts can adversely affect safety.

## **2** Description

2.1 Purpose

When used properly, the cleaners described in these instructions are suitable to pick up non hazardous, nonflammable liquids, e.g. to pick up remaining water after water leaks or floods.

10 Submerged pump

11 Castor with brake

12 Coarse dirt cage

control

14 Inlet fitting

16 Cable hook

13 Hose for automatic level

15 Submerged pump socket

- 2.2 Operating elements
- 1 Handle
- 2 Suction pipe holder<sup>1)</sup>
- 3 Accessory holder
- 4 Switch with suction power control
- 5 Coupling for water drainage hose
- 6 Retaining clamp
- 7 Tank locks
- 8 Handle
- 9 Dirt tank

## **3 Before starting**

3.1 Assembling the cleaner



Upon delivery some of the accessories are lying in the packaging and must be removed before the cleaner is used for the first time.



 Remove all the accessories<sup>1)</sup> from the packaging and assemble the cleaner.

- 4 Operation
- 4.1 Connections
- 4.1.1 Connecting the suction hose



- 1. Insert the suction hose on the tank.
- 2. Connect the water drainage hose to the coupling on the tank.

### 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 cleaner is switched off.
- Insert the power cord into a properly installed and fused socket with earthing contact.
- 3. Activate the personal safety switch<sup>1)</sup>

## 4.1.3 Connect the submerged pump



The IP68 socket on the operating panel is to connect the in-built submerged pump only.

# 4.2 Switching on the cleaner4.2.1 Switch position "I"

The submerged pump cannot be operated in switch position "I". The suction motor is switched off when the maximum level has been reached. Switch off the cleaner and empty the tank.

### 4.2.2 Switch position "auto"



Before switching the switch to position "auto", ensure

that the submerged pump is connected.

If the tank is empty, the suction motor runs alone. When the tank starts filling with water, the submerged pump switches on. When the tank is almost full, suction is reduced to prevent the tank from being overfilled.

### 4.2.3 Switch position ,, $\downarrow_{\downarrow}$ "

The switch position " by " is a touch position (it resets automatically). If it is pressed once, the submerged pump works for 30 seconds. At the same time the submerged pump is protected from running dry.



The suction motor is switched off when the maximum level has been reached. As soon as the water level has been significantly lowered by the submerged pump, the suction motor is switched on again. When the tank is completely emptied, there is a delay before the submerged pump is switched off.



- 1. Insert the plug of the submerged pump into the IP68 socket on the operating panel and tighten the locking ring.
- Turn the switch to position "I".
   The suction motor starts.

1. Turn the switch to position "auto".

The fully automatic tank emptying procedure is activated.

1. Turn the switch to position " Ly ". The tank can be emptied with this function.



4.2.4 Setting suction power



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.

4.2.5 Temperature monitoring

A sensor measures the exhaust air temperature and reduces the suction power as soon as the max. permissible temperature has been exceeded. If the exhaust air temperature is too high, the suction motor is switched off. Switch off the cleaner and allow it to cool.

## **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 liquids CAUTION! Do not pick up flammable liquids. Before picking up liquids, check the function of the water level limiter (hose for automatic

level limiter (hose for automatic level control) (see Section 7.2.2 "Cleaning and replacing the filter sieve", step 6.).

Do not use the cleaner as a water pump. Do not insert the suction pipe or suction noz-

zle completely in the water but always draw in a small amount of air in order to protect the turbine from overheating.

If foam appears, stop work immediately and empty the tank.

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

## 6 After finishing work

6.1 Switching the cleaner off and storage



- Switch off the cleaner and pull the mains plug out of the socket.
- 2. Empty the tank and clean the cleaner.
- 3. Wind up the power cord and hang it on the handle.
- 4. Pack accessories away.
- 5. Store the cleaner in a dry room where it is protected from unauthorized use.

## 7 Maintenance

### 7.1 Maintenance plan

		After finishing work	As required
7.2.1	Emptying the dirt tank	•	•
7.2.2	Cleaning and replacing the filter sieve.	•	•

### 7.2 Maintenance work

### 7.2.1 Emptying the dirt tank





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. Remove the coarse dirt cage and empty it.
- 4. Pull the lever in the handle(3) upwards and tilt the tank.
- 5. Tip out the collected dirt.
- 6. Dispose of the dirt in accordance with legal regulations.
- or:
- 3. Remove the coarse dirt cage and empty it.
- 4. Open the tank locks (4).
- 5. Use the handles (5) to lift the tank out of the frame.
- 6. Tip out the collected dirt.
- Place the empty tank in the frame and close the locks (4).
- 8. Dispose of the dirt in accordance with legal regulations.



7.2.2 Cleaning and replacing the filter sieve.



Never use the cleaner without a filter sieve.







- 1. Switch off the cleaner and pull the mains plug out of the socket.
- Remove the upper section of cleaner from the dirt tank.
   Do not stand the upper section of cleaner on the guard.
- 3. Lay the upper section of the cleaner down with the filter sieve facing upwards.
- 4. Turn the filter holder anticlockwise (2) and remove it (3).
- 5. Remove the filter sieve.
- Check the antistatic clamp (4) for damage and have it replaced by Nilfisk Service if necessary.
- Clean the hose for automatic level control (5) and check it for damage and have it replaced by Nilfisk Service if necessary.
- 8. Fit a new filter sieve.
- 9. Fit the filter holder and turn it clockwise to secure it.
- 10. Dispose of the used filter sieve in accordance with legal regulations.

## 8 Troubleshooting

	Fault	Cause	Remedy
‡	Motor does not start	> Fuse of the mains socket has blown	Connect mains fuse
		The personal safety switch <sup>1)</sup> in the mains lead of the cleaner has been triggered	<ul> <li>Activate the personal safety switch. See Section 4.1.2 "Electrical connection"</li> </ul>
		<ul> <li>Overload protection switch has tripped</li> </ul>	<ul> <li>Switch off the vacuum cleaner and allow it to cool for approx.</li> <li>5 minutes. If the cleaner can- not be started again, contact the Nilfisk service department</li> </ul>
		<ul> <li>Self-acting carbon brush is worn</li> </ul>	<ul> <li>Have carbon brushes changed by Nilfisk Service</li> </ul>
‡	Motor does not work. Switch position "I"	> Tank is full	Switch off the cleaner. Empty the tank
‡	Motor does not work. Switch position "auto"	<ul> <li>Tank is full. Submerged pump overloaded or faulty</li> </ul>	<ul> <li>Check submerged pump. If necessary, have it replaced by Nilfisk Service</li> </ul>
		> Tank is full. Submerged pump is not plugged in	Plug in submerged pump
		<ul> <li>Automatic level control is faulty</li> </ul>	<ul> <li>Have automatic level control replaced by Nilfisk Service</li> </ul>
‡	Submerged pump does not work. Switch position "auto" or " ڮئ	> Pump impeller blocked by dirt	Remove dirt
		<ul> <li>Overload protection has been triggered</li> </ul>	<ul> <li>Allow submerged pump to cool</li> </ul>
		> Submerged pump is faulty	Replace submerged pump
‡	Reduced suction power	Suction power selected with suction power control is too low	<ul> <li>See suction power. See Sec- tion 4.2.4 "Suction power con- trol"</li> </ul>
		> Clogged suction hose/nozzle.	Clean suction hose/nozzle
		> Filter sieve is dirty	• See section 7.2.2 "Cleaning and replacing the filter sieve".
		<ul> <li>Automatic Filter Cleaning System only Defective cleaning mecha- nism</li> </ul>	Contact Nilfisk Service
‡	No suction power	> Tank is full	Switch off the cleaner. Empty the tank
+	Voltage fluctuations	<ul> <li>Impedance of power supply is too high</li> </ul>	<ul> <li>Connect the cleaner to an- other socket closer to the fuse box. Voltage fluctuations over 7% should not occur if the im- pedance at the transfer point is ≤ 0.15 Ω</li> </ul>

EN

## S 9 Further information

## 9.1 Recycling the vacuum cleaner



### 9.2 Guarantee

### 9.3 Maintenance

Make the old cleaner unusable immediately.

1. Unplug the cleaner and cut the power cord.

Do not discard of electrical appliances with household waste.

As specified in European Directive 2012/19/EU on old electrical

Our general conditions of business are applicable with regard to the guarantee.

Regular servicing and inspection of your machine must be carried out by suitably qualified personnel in accordance with relevant legislation and regulations. In particular, electrical tests for earth continuity, insulation resistance, and condition of the flexible cord should be checked frequently and after repairs or modifications. In the event of any defect, the machine MUST be withand electronic appliances, used electrical goods must be collected separately and recycled ecologically.

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

Subject to change as a result of technical advances.

drawn from service, completely checked and repaired by an authorized service technician.

The cleaner is designed for continuous heavy work. Depending on the number of running hours – the dust filter should be renewed. Keep the vacuum cleaner clean with a dry cloth, and a small amount of spray polish.

### 9.4 Technical data

		ATTIX 751-61 / ATTIX 75	1-71 / ATTIX 751-71 MWF	ATTIX 19 GALLON AE
		EU	CH, DK	US 120 V
Voltage	V	220-240	220-240	110-120
Mains frequency	Hz	50/60	50/60	60
Fuse	A	16	10	15
Power consumption	W (HP)	1200	1200	800 (1.1)
Connected load for appliance socket	W (HP)	650	650	650 (0.8)
Total connected load	W (HP)	1850	1850	1440 (1.9)
Volume flow (air)	l/min (cfm)	3600 (127)	3600 (127)	3600 (127)
Negative pressure (water lift)	Pa (in)	23000 (93)	23000 (93)	23000 (93)
Sound pressure level $\rm L_{\rm PA}$ (IEC 60335-2-69)	dB(A)	65 ± 2	65 ± 2	65 ± 2
Vibration ISO 5349, a <sub>h</sub>	m/s²	≤2,5	≤2,5	≤2,5
Working Sound Level	dB(A)	57 ± 2	57 ± 2	57 ± 2
Protection class		I		
Protection grade (moist, dust)		IP X4	IP X4	IP X4
Weight	kg (lb)	33	30,7	33 (73)

Specifications and details are subject to change without prior notice.

### 9.5 Accessories

Description	Order No.	
	ATTIX 751-61 / 751-71 / 751-71 MWF / 19 GALLON AE	
Filter sieve	15475	
Nilfisk-Foam-Stop (6 x 1 l)	8469	

### 9.6 EU Declaration of conformity

We, Nilfisk A/S Kornmarksvej 1 DK-2605 Broendby DENMARK

Hereby solely declare, that the product: VAC - Commercial - Wet/Dry Description IPX4 Type ATTIX 751-61; ATTIX 751-71, ATTIX 751-71 MWF

Are in compliance with the following standards: EN 60335-1:2012 EN 60335-2-69:2012 EN 55014-1:2006+A1:2009+A2:2011 EN 55014-2:1997+A1:2001+A2:2008 EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2013 EN 50581:2012

Following the provisions of: Machinery Directive 2006/42/EC EMC Directive 2004/108/EC RoHS Directive 2011/65/EC

Hadsund 15-09-2015

Anton Sørensen Senior Vice President – Global R&D



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