



## POSEIDON 7-66 POSEIDON 7-52



# Nilfisk ALTO

*Why Compromise*

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**Symbols**



Safety instructions in these operating instructions which must be observed to prevent risks to persons are marked with this danger symbol.



This symbol indicates safety instructions that must be observed to prevent damage to the machine or its performance.



This symbol indicates advice or instructions that make work simpler and ensure safe operation.

# 1 Important safety notes



Before using the high-pressure cleaner, be sure to also read the enclosed operating instructions and keep them within reach at all times.

The high-pressure cleaner may only be used by persons instructed in its use and who have been expressly authorised to do so.

## General

Use of the high-pressure cleaner is subject to the applicable local regulations.

In addition to the operating instructions and the binding accident prevention regulations in the country of use, the generally recognised rules for safe working must also be observed. Any method of use endangering the safety of persons or equipment is forbidden.

## Before use

Before use, check that the high-pressure cleaner is in a safe and proper condition. Plugs and connectors of mains power leads must be at least splash water-proof.

Inspect the main power lead at regular intervals for damage and/or ageing.

Use the high-pressure cleaner only when the mains power lead is in a safe condition. (risk of electric shock if damaged!). Operate the cleaner only in an upright position!

## Important notes:

Do not connect the cleaner directly to the public drinking water mains (observe DIN 1988 and EN 1717). A connection is permitted, however:

- briefly to a pipe interrupter with moving section
- with a free outlet

Water may also be drawn from an open container or from a well or surface water not intended for the drinking water supply. Please use suction set for this. Ensure that neither dirty water nor liquids containing solvents are sucked in.

Please observe the regulations and provisions applicable in your country. Before putting the high-pressure cleaner into service, carry out a visual check of all the major components.

High-pressure jets can be dangerous if misused. The jet must not be directed at persons, animals, live electrical equipment or the cleaner itself.

During operation of the cleaner, recoil forces are produced at the spraying device and, when the spray lance is held at an angle, a torque is also created. The spraying device must therefore be held firmly in both hands.

## Risk of injury!

Do not direct the jet towards yourself or towards other persons in order to clean clothes or footwear.

Do not use the cleaner when other people without protective clothing are in the working area. Check that cleaning will not result in dangerous substances (e.g. asbestos, oil) being washed off the object to be cleaned and harming the environment. Do not clean delicate parts made of rubber, fabric, etc. with the round jet. Hold the nozzle at a distance of at least 15 cm when cleaning with the high-pressure flat jet.

Although extremely easy to operate, children should not be allowed to use the cleaner.

Do not use the high-pressure hose for lifting loads.

Do not continue to use the cleaner if the mains power lead or high-pressure hose is damaged.

Ensure an adequate air circulation. Do not cover the cleaner or operate it in inadequately ventilated rooms! If the overload protection device trips (motor cuts out), release the trigger of the spray gun, insert the trigger locking device and turn the ON/OFF switch to position „O“. Allow the cleaner to cool down for at least 3 minutes!

Store the cleaner where it will not be exposed to frost!

Never operate the cleaner without water. Even brief shortages of water result in severe damage to the pump seals.

The pressure-bearing parts of this high-pressure cleaner have been manufactured in accordance with § 9 of the German Pressure Vessels Ordinance and successfully subjected to a pressure test.

## Operation

Do not damage the mains power lead (e.g. by driving over it, pulling or crushing it).

Remove the plug from the plug socket directly at the plug (not by pulling or tearing at the mains power lead).

## Maintenance and repair

### CAUTION!

**Always remove the plug from the mains plug socket before cleaning or carrying out maintenance work on the cleaner.**

Carry out only the maintenance operations described in the operating instructions. Use only original Alto spare parts. Do not make any technical modifications to the high-pressure cleaner.

### CAUTION!

High-pressure hoses, fittings and couplings are important for the safety of the cleaner. Use only high-pressure parts approved by the manufacturer!

### CAUTION!

Failure to observe these instructions can endanger your safety.

Please contact the Alto service department or an authorised specialist work-shop for all other maintenance or repair work!

## Electrical equipment



Check the rated voltage of the high-pressure cleaner before connecting it to the mains power supply. Ensure that the voltage specified on the rating plate corresponds to the local mains supply voltage.

Cleaners intended for commercial use must be equipped with a mains power lead type H 07

RN-F by a qualified electrician. The mains power lead must not differ from the version specified by the manufacturer and may only be changed by an electrician.

If your 3-phase cleaner was supplied without a plug, have it fitted with a suitable 3-phase plug with protective conductor contact by an electrician.

The mains power lead must not differ from that specified by the manufacturer.

We strongly recommend that the power supply to the high-pressure cleaner be connected via a residual-current circuit breaker which interrupts the power supply either if the leakage current to earth exceeds 30 mA for 30 ms or which contains an earth testing circuit.

If an extension lead is used, please observe the minimum cross-section of the lead:

Lead length section	Cross
m	mm <sup>2</sup>
bis 20	1.5
20 bis 50	2.5

If an extension lead is used, all live parts (plug, cable, plug socket) must be located so that the protection class „watertight“ is ensured. This can also be achieved by protecting the lead.

### CAUTION!

Unsuitable extension leads can represent a source of danger.

### CAUTION!

Never spray electrical equipment with water:  
Danger for persons, danger of short-circuit!

The cleaner may only be connected to a correctly installed plug socket.

## Testing

The cleaner conforms to the „Guidelines for Liquid Spray Jet Devices“. The high-pressure cleaner must be sub-

jected to a safety examination in accordance with the „Accident Prevention Regulations for Working with Liquid Spray Jet Devices“ as required, but at least every 12 months, by an authorised inspector.

After all repairs or modifications to electrical equipment, the protective conductor resistance, the insulation resistance and the leakage current must be measured.

Furthermore, a visual inspection of the mains power lead, a voltage and current measurement and a function test must be carried out. Our after-sales service technicians are at your disposal as authorised inspectors.

The complete „Accident Prevention Regulations for Working with Liquid Spray Jet Devices“ are available from the Carl Heymanns Verlag KG, Luxemburger Strasse 449, 50939 Cologne or from the appropriate association of employers' liability insurances.

## Safety device

Unacceptably high pressure is fed back without residual pressure via a bypass line into the intake line of the pump when the safety device is tripped. The safety device is set and sealed at the factory and must not be adjusted.

## 2 Description

### 2.1 Intended use

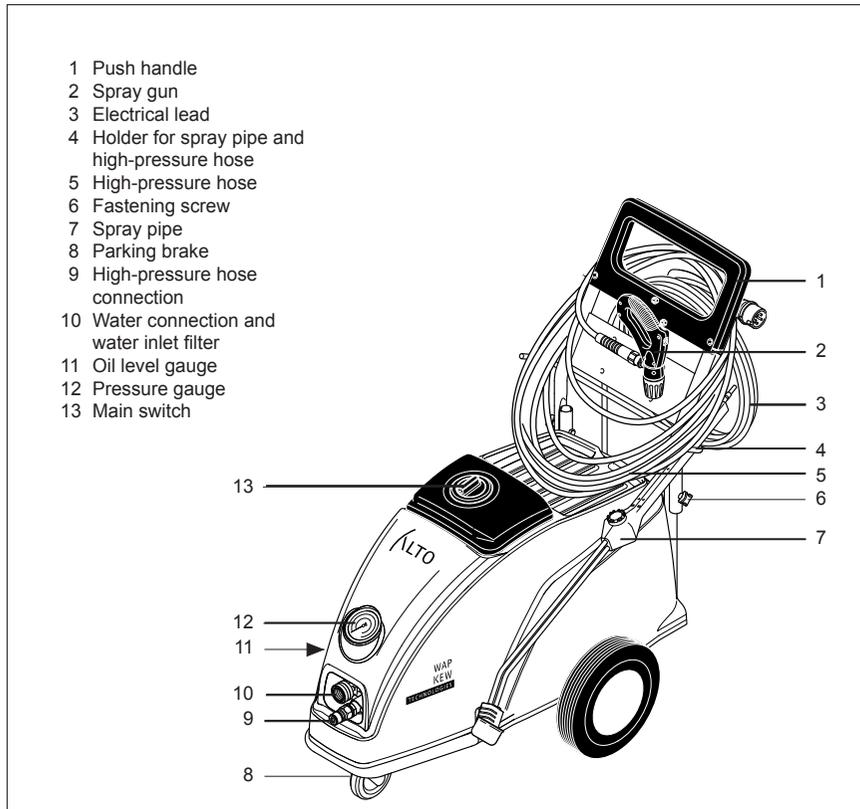
This high-pressure cleaner has been designed for professional use in

- agriculture
- transport industry
- food industry
- construction industry, etc.

Chapter 5 describes the use of the high-pressure cleaner for various cleaning jobs.

Always use the cleaner as described in these operating instructions. Any other use may damage the cleaner or the surface to be cleaned or may result in severe injury to persons.

### 2.2 Operating elements



## 3 Before starting the cleaner

### 3.1 Transport

The cleaner is easy to transport thanks to its large wheels. For safe transportation in and on vehicles we recommend that you use belts and the parking brake to secure the cleaner so that it cannot slip or fall over.

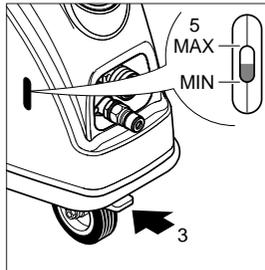
#### CAUTION!

Never lift the cleaner alone (weight = 70 kg). Always ask a second person to help.

If you transport the cleaner and its accessories at or below 0°C, we recommend the use of anti-freeze as described in chapter 5.5.



### 3.2 Setting up the cleaner



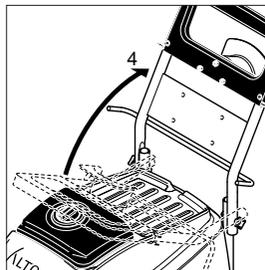
1. Before using the cleaner for the first time, check it carefully to detect any faults or damage.

2. In the event of any damage contact your Alto dealer immediately.

3. Apply the brake.

4. Fold back the push handle and lock it with the fastening screws.

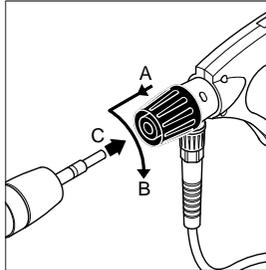
5. Check whether the oil level is between the minimum and maximum marks. If necessary, add oil (see chapter 9.3 for type of oil).



# 4 Operation and Use

## 4.1 Connections

### 4.1.1 Connecting the spray pipe to the spray gun



1. Pull the blue quick-release grip of the spray gun forwards and lock it by turning it to the left.
2. Insert the nipple of the spray pipe into the quick-release connection and turn the blue quick-release grip to the right.
3. Pull the spray pipe (or other accessory) forwards to check that it is securely attached to the spray gun.



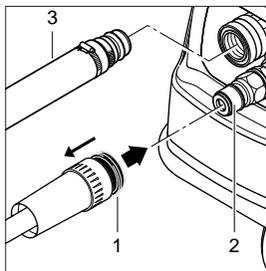
**NOTE!**  
Always remove any dirt from the nipple before connecting the spray pipe to the spray gun.

### 4.1.2 Connecting the high-pressure hose and the water hose



1. Connect the high-pressure hose with the quick-release connection to the high-pressure connection.

**NOTE!**  
The maximum permissible working pressure and temperature are printed on the high-pressure hose.  
Use max. 50 m hose.



2. Before connecting the water hose to the cleaner, rinse the water hose briefly to prevent sand and other dirt from entering into the cleaner.
3. Use the quick-release connection to attach the water hose to the water connection.
4. Open the tap.

(continued -->)

**NOTE!**

See chapter 9.3 for required quantity of water and water pressure.

In the case of poor water quality (sand, etc.), we recommend that a fine water filter is fitted in the water inlet.

We recommend the use of a textile-reinforced water hose with a nominal diameter of min. **3/4" (19 mm) and a length of min. 6 m.**

The cleaner should be fitted with a preliminary water tank if it is used with

- hot water or
- high-pressure hoses longer than 10 m or
- permanent pipe installations.

#### 4.1.3 Electrical connection

**CAUTION!**

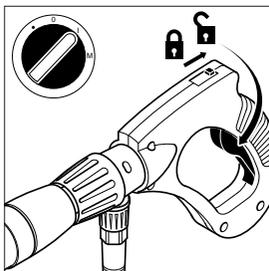
Connect the cleaner only to an electrical installation that complies with regulations.

Follow the safety instructions in chapter 1.

1. Plug the cleaner into the electrical socket.

#### 4.2 Switching on the cleaner

##### 4.2.1 Switching on the cleaner when it is connected to a water supply



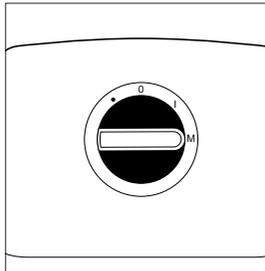
1. Turn the main switch to position 1.
2. Unlock the spray gun and operate it.
3. Fast the safety catch even during short pauses.



**NOTE!**  
Operate the spray gun several times at short intervals to vent the system.

The cleaner switches off automatically twenty seconds after the spray gun has been closed. To start the cleaner again, operate the spray gun.

#### 4.2.2 Switching on the cleaner when it is connected to open tanks (suction mode)



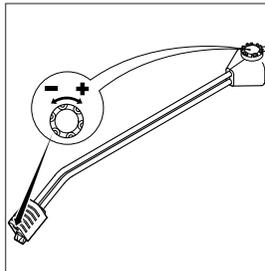
1. Before connecting the suction hose to the cleaner, fill the hose with water.
2. Turn the main switch to position M.
3. Unlock the spray gun and operate it.

The cleaner automatically switches off after pauses of more than five minutes.

4. To start the cleaner again, operate the main switch again.

Max. suction height = 3 m.

#### 4.3 Pressure regulation



1. Turn the twist grip on the spray unit:
  - clockwise (+) for high pressure
  - anticlockwise (–) for low pressure.

#### 4.4 Using cleaning agents

Cleaning agents can be added by means of the cleaning agent injector (optional accessory).

1. Dilute cleaning agent according to the manufacturer's instructions.
2. Set the pressure to the lowest setting on the spray pipe.

3. The amount of cleaning agent that is drawn in can be regulated by turning the dosing valve of the injector (optional accessory).

**CAUTION!**  
Never allow cleaning agent to dry on the surface to be cleaned as this may cause damage.

## 5 Applications and methods

- 5.1 General Information** Efficient high pressure cleaning is achieved by following a few guidelines, combined with your own personal experience of specific cleaning tasks. Accessories and detergents, when correctly chosen, can increase the efficiency of your pressure washer. Here is some basic information about cleaning.
- 5.1.1 Soaking** Incrusted or thick layers of dirt can be loosened or softened up by a period of soaking. This is for example an ideal method within agriculture – for example, within pig sties. The ideal soaking method can be achieved via use of foam or simple alkaline detergent. Let the product lie on the dirty surfaces for around 30 minutes before pressure washing. The result will be a much quicker high pressure cleaning process.
- 5.1.2 Detergent and Foam** Application Foam or detergent should be applied onto dry surfaces so that the chemical product is in direct contact with the dirt. Detergents are applied from bottom to top, for example on a car bodywork, in order to avoid “super clean” areas, where the detergent collects in higher concentration and streams downwards. Let the detergent react several minutes before cleaning off.
- 5.1.3 Temperature** Detergents are more effective at higher temperatures. Greases, oils and fats can be broken down more easily at higher temperatures also. Proteins can be cleaning at temperatures of around 60°C. Oils, pollution and grease can be cleaning between 70° and 90° C (Poseidon max. 85°C).
- 5.1.4 Mechanical Effect** In order to break down tough layers of dirt, additional mechanical effect may be required. Special lances and rotary or wash brushes offer this supplementary effect that cuts through dirt. Use a brush to cut through e.g. traffic film.
- 5.1.5 High Water Flow or High Pressure** High pressure is not always the best solution and high pressure may damage surfaces. The cleaning effect also depends upon water flow. Pressure levels of around 100 bar may be sufficient for vehicle cleaning (in association with hot water). Higher flow levels give the possibility to rinse and flush away large amounts of dirt easily.

## 5.2 Some typical cleaning tasks

### 5.2.1 Agriculture

Task	Accessories	Method
<b>Stables</b> Pig Pens, Sties  Cleaning of walls, floors and equipment  Disinfection	Chemical Foam Injectors Foam lance Powerspeed lance Floor Cleaner Powerlift lance  <b>Detergents</b> Universal Alkafoam  <b>Disinfectant</b> DES 3000	<ol style="list-style-type: none"> <li>1. Soaking – apply foam to all surfaces (bottom to top) and wait for approx 30 minutes.</li> <li>2. Remove the dirt from surfaces with the high pressure lance or chosen accessory. Again, clean from bottom to top on vertical surfaces.</li> <li>3. To flush away large quantities of dirt, change to low pressure mode and use the higher flow to push away the dirt.</li> <li>4. Use recommended disinfectant products and methods to ensure hygiene. Only apply disinfectants once the dirt has been fully removed.</li> </ol>
<b>Machinery</b> Tractors, ploughs etc.	Standard lance Detergent injection Powerspeed lances Curved lances and underchassis washers Brushes	<ol style="list-style-type: none"> <li>1. Apply detergent to vehicle or equipment surfaces in order to soften up dirt and grime. Apply from bottom to top.</li> <li>2. Proceed with cleaning using the high pressure lance. Clean again from bottom to top. Use accessories to clean in difficult to reach places.</li> <li>3. Clean fragile areas such as motors, rubber at lower pressure levels to avoid damage.</li> </ol>

### 5.2.2 Vehicle

Task	Accessories	Method
<b>Vehicle body-work</b>	Standard lance Detergent injection Curved lances and underchassis washers Brushes  <b>Detergents</b> Aktive Shampoo Aktive Foam Sapphire Super Plus Aktive Wax Allosil RimTop	<ol style="list-style-type: none"> <li>1. Apply detergent to vehicle or equipment surfaces in order to soften up dirt and grime. Apply from bottom to top. In cases of particularly dirty vehicles, pre-spray with a product such as Allosil in order to remove traces of insects etc, then rinse at low pressure and apply normal car cleaning detergent. Let detergents settle for 5 minutes before cleaning off. Metallic surfaces can be cleaned using RimTop.</li> <li>2. Proceed with cleaning using the high pressure lance. Clean again from bottom to top. Use accessories to clean in difficult to reach places. Use brushes in order to add a mechanical cleaning effect. Short lances can help for cleaning of motors and wheel arches. Curved lances or undercarriage washers can be valuable for the cleaning of car underchassis and wheel arches.</li> <li>3. Clean fragile areas such as motors, rubber at lower pressure levels to avoid damage.</li> <li>4. Apply a liquid wax using the pressure washer in order to protect the bodywork from pollution.</li> </ol>

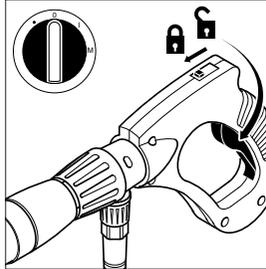
### 5.2.3 Buildings and Equipment

Task	Accessories	Method
<b>General surfaces</b>  <b>Metallic equipment</b>	Foam injectors Standard lance Curved lances Tank cleaning heads  <b>Detergents</b> Intensive J25 Multi Combi Aktive Alkafoam  <b>Disinfectant</b> DES 3000	<ol style="list-style-type: none"> <li>1. Apply thick foam over the surfaces to be cleaned. Apply on dry surfaces. Apply from top to bottom on vertical surfaces. Let the foam act for up to 30 minutes for the optimal effect.</li> <li>2. After this time, clean down with the high pressure lance or relevant accessory. Use high pressure to dislodge large amounts of incrustated dirt or grime. Use lower pressure and high water volume in order to rapidly flush away loose dirt and rinse surfaces.</li> <li>3. Apply DES 3000 disinfectant once the surfaces are perfectly clean.</li> </ol> <p>Areas covered by amounts of loose dirt, such as animal remains in slaughterhouses, can be removed by using high water flow to flush away the dirt to evacuation pits or drains.</p> <p>Tank cleaning heads can be used to clean barrels, vats, mixing tanks etc. Cleaning heads may be hydraulically or electrically powered and give the possibility for automatic cleaning without a constant user.</p>
<b>Rusted or damages surfaces prior to treatment</b>	Wet Sandblasting equipment	<ol style="list-style-type: none"> <li>1. Connect the sandblasting lance to the pressure washer and place the suction tube in the sand.</li> <li>2. Always wear protective equipment during sandblasting.</li> <li>3. Spray the surfaces to be treated with the mix of water and sand. Rust, paint etc will be stripped off.</li> <li>4. Following sandblasting, protect surfaces against rust (metal) or rot (wood).</li> </ol>

These are merely several examples of cleaning tasks that can be solved by a pressure washer in association with accessories and detergents. Each cleaning task is different, so please consult your local dealer or ALTO representative in order to discuss the best solution for your own cleaning problem.

# 6 After using the cleaner

## 6.1 Switching off the cleaner

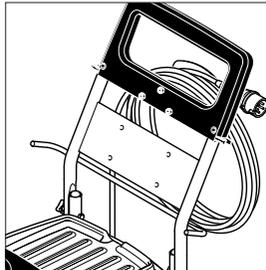


1. Turn the main switch to position 0.
2. Close the tap.
3. Operate the spray gun until the cleaner is depressurized.
4. Insert the safety catch.

## 6.2 Disconnecting supply lines

1. Pull out the plug from the electrical socket.
2. Remove the water hose from the cleaner.

## 6.3 Rolling up the electrical lead

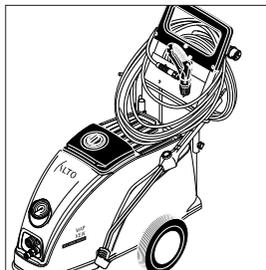


### Risk of tripping!

To prevent accidents, always carefully roll up the electrical lead.

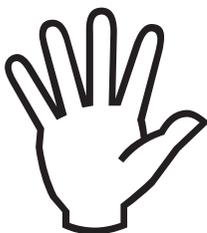
1. Roll up the electrical lead as illustrated.

## 6.4 Storing accessories



1. Hang the spray pipe and the high-pressure hose in their holders.

## 6.5 Storing the cleaner (below 0°C)



1. Store the cleaner in a dry room without danger of frost.

### CAUTION!

If the high-pressure cleaner is stored in a room with temperatures around or below 0°C, anti-freeze should be drawn into the pump beforehand:

1. Remove the water inlet hose from the cleaner.
2. Remove the spray pipe.
3. Switch on the cleaner with the main switch in position M. Switch off the cleaner after max. 3 minutes.
4. Connect the suction hose to the water inlet of the cleaner and place it in a tank containing anti-freeze.
5. Switch on the cleaner with the main switch in position M.
6. Hold the spray gun over the tank containing anti-freeze and operate it to start suction.
7. During suction operate the spray gun two or three times.
8. Lift the suction hose from the tank containing anti-freeze and operate the spray gun to pump off the remaining anti-freeze.
9. Switch off the cleaner.
10. To avoid any risks, store the cleaner temporarily in a heated room before using it again.

# 7 Maintenance

## 7.1 Maintenance plan

	Weekly	Every six months or 500 operating hours	As required
7.2.1 Clean water filter	●		
7.2.2 Clean high-pressure nozzle			●
7.2.3 Check oil level	●		
7.2.4 Change oil		●	

## 7.2 Maintenance work

### 7.2.1 Clean water filter

A water filter is fitted on the water inlet to prevent large particles of dirt from entering into the pump.

1. Unscrew the quick-release connection.
2. Remove the filter and rinse it. Replace damaged filter.

### 7.2.2 Clean high-pressure nozzle

A blocked nozzle causes excessive pump pressure. It must therefore be cleaned immediately.

1. Switch off the cleaner.
2. Remove the spray pipe.
3. Clean the nozzle with the Alto cleaning needle.

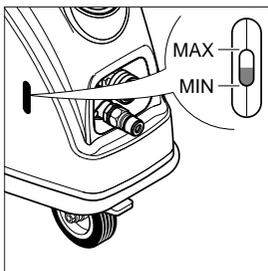


#### CAUTION!

Use the cleaning needle only when the spray pipe has been removed.

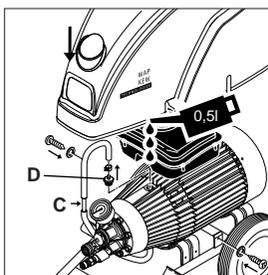
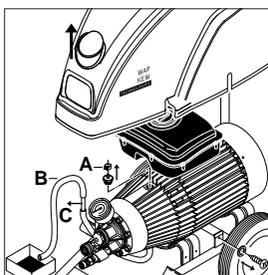
4. Rinse the spray pipe with water from the nozzle side.

### 7.2.3 Checking the oil level



1. Check whether the oil level is between the minimum and maximum levels. Add oil if necessary (see chapter 9.3 for type of oil).

### 7.2.4 Changing the oil



1. Before changing the oil, allow the cleaner to become warm.
2. Remove the panel by unscrewing the two screws on the side.
3. Loosen the hose clamp (A).
4. Remove the hose from the hose nipple (B).
5. Detach the check pipe (C) from the holder.
6. Allow the oil to drain into a suitable container (min. 1 l capacity) and dispose of oil in compliance with regulations.
7. Hang the check pipe (C) in its holder again.
8. Unscrew the hose nipple (D).
9. Fill pump with fresh oil (see 9.3 for oil type and quantity).
10. Check the oil level (see 7.2.3).
11. Screw in the hose nipple, attach the hose and secure it using the hose clamp.
12. Attach the panel.



#### CAUTION!

Special pump oil is required if the cleaner is used near food. Please consult your Alto dealer.

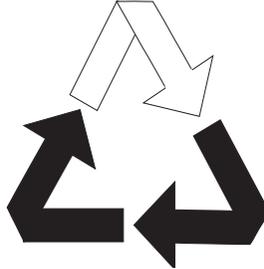
# 8 Troubleshooting

Fault	Cause	Remedy
Pressure drop	<ul style="list-style-type: none"> <li>&gt; Air in the system</li>   <li>&gt; High-pressure nozzle blocked/worn</li>   <li>&gt; Pressure control on the spray pipe is not set correctly.</li> </ul>	<ul style="list-style-type: none"> <li>• Vent the system by operating the spray gun several times at short intervals. If necessary, operate the cleaner for a short time without the high-pressure hose connected</li>   <li>• Clean/replace the high-pressure nozzle</li>   <li>• Set the required working pressure</li> </ul>
Pressure fluctuations	<ul style="list-style-type: none"> <li>&gt; Pump draws in air (only possible in suction mode)</li>   <li>&gt; Lack of water</li>   <li>&gt; Water inlet hose is too long or its cross-section too small</li>   <li>&gt; Lack of water caused by blocked water filter</li>   <li>&gt; Lack of water because max. permissible suction height has not been heeded</li> </ul>	<ul style="list-style-type: none"> <li>• Check that the suction set is air-tight</li>   <li>• Open the tap</li>   <li>• Use specified water inlet hose</li>   <li>• Clean the water filter in the water connection (never work without water filter)</li>   <li>• See instructions</li> </ul>
The motor does not start when the cleaner is switched on	<ul style="list-style-type: none"> <li>&gt; The plug is not inserted properly, i.e. there is no current</li>   <li>&gt; The mains fuse is switched off</li> </ul>	<ul style="list-style-type: none"> <li>• Check the plug, lead and switch and if necessary have them replaced by a trained electrician</li>   <li>• Switch on the mains fuse</li> </ul>

Fault	Cause	Remedy
When the cleaner is switched on the motor buzzes without starting	<ul style="list-style-type: none"> <li>&gt; The mains voltage is too low or there is a phase failure.</li> <li>&gt; The pump is blocked or frozen</li> <li>&gt; Incorrect cross-section or length of the extension lead</li> </ul>	<ul style="list-style-type: none"> <li>• Have the electrical connection checked</li> <li>• Contact the Alto customer service</li> <li>• Use lead with correct cross-section or length</li> </ul>
The motor switches off	<ul style="list-style-type: none"> <li>&gt; The switch is in position 'M' and the cleaner has not been used for more than 5 minutes</li> <li>&gt; The overload protection has been activated due to overheating or overloading of the motor</li> <li>&gt; High-pressure nozzle is dirty</li> </ul>	<ul style="list-style-type: none"> <li>• Operate the main switch again</li> <li>• Check that the mains voltage and the cleaner voltage are the same. Switch off the cleaner and allow it to cool for at least 3 minutes</li> <li>• Change the high-pressure nozzle</li> </ul>
When a cleaning agent injector (optional accessory) is used, cleaning agent is not supplied	<ul style="list-style-type: none"> <li>&gt; Injector is dirty or suction hose is blocked</li> <li>&gt; Cleaning agent tank is empty</li> <li>&gt; The twist grip on the spray pipe is not set to low pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Clean</li> <li>• Fill the cleaning agent tank</li> <li>• Turn the twist grip on the spray pipe anti-clockwise as far as possible</li> </ul>

# 9 Further information

## 9.1 Recycling the cleaner



If the cleaner is discarded, make it unusable immediately

1. Unplug the cleaner and cut the electrical lead.

The cleaner contains valuable materials that should be recycled. Contact your local waste disposal site. If you have any queries, please contact your local authorities or your nearest dealer.

## 9.2 Guarantee

Our general terms and conditions apply to the guarantee and warranty.

Changes in line with technical innovation reserved.

### 9.3 Technical data

		Poseidon 7-52	Poseidon 7-66
Working pressure	bar	152 (2200 psi)	190
Volume flow (max)	l/h	1158 (5.1 gal/min)	1280
Volume flow $Q_{IEC}$	l/h	1045 (4.6 gal/min)	1180
Voltage 200-230 V/ 1~/60Hz		US	
Voltage 200 V / 3~/ 50Hz			JP
Voltage 200 V / 3~/ 60Hz			JP
Voltage 400 V / 3~/ 50Hz			DK
Voltage 400-415 V/ 3~/ 50Hz			EU
Voltage 230-400 V/ 3~/ 50Hz			N, I, BE, ESP, Unitor
Voltage 220-440 V/ 3~/ 60Hz			US, EXP, Unitor
Fuse	A	35	16
Power rating	kW	6.4	8
Max. water inlet temperature	°C	85 (185°F)	85
Dimensions l x w x h	mm	1020x 560x 540	1020x 480x 940
Weight of cleaner	kg	60	74
Weight of spray equipment	kg	6	6
Noise level at a distance of 1 m (DIN 45635)			
Repulsion power	dB (A)	75	75
Suction height	N	51	64
Oil quantity	m	3	3
Oil type	l	0.5	0.5
		Castrol ALPHASYN - T ISO150	

### 9.4 EU Declaration of Conformity

<b>CE</b>		<b>EU Declaration of Conformity</b>	
ALTO Deutschland GmbH Guido-Oeserhof-Str. 2-8 D-89287 Bellenberg			
<b>Product:</b>	High Pressure Cleaner		
<b>Type:</b>	Poseidon 7		
<b>Description:</b>	400 V 3~, 50 Hz IP X5		
<b>The design of the unit corresponds to the following pertinent regulations:</b>	EC Machine Directive	98/37/EG	
	EC Low-voltage Directive	73/23/EEG	
	EC EMV Directive	89/338/EEG	
<b>Applied harmonised standards:</b>	EN 292		
	EN 60335-2-79		
	EN 55014-1, EN 55014-2, EN 61000-3-2		
<b>Applied national standards and technical specifications:</b>	DIN EN 60335-2-79		
 Dipl.-Ing. Wolfgang Nieuwkamp Tests And Approvals			
			Bellenberg, 01.06.2006

# Nilfisk ALTO

Why Compromise

<http://www.nilfisk-alto.com>

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