

Operating instructions

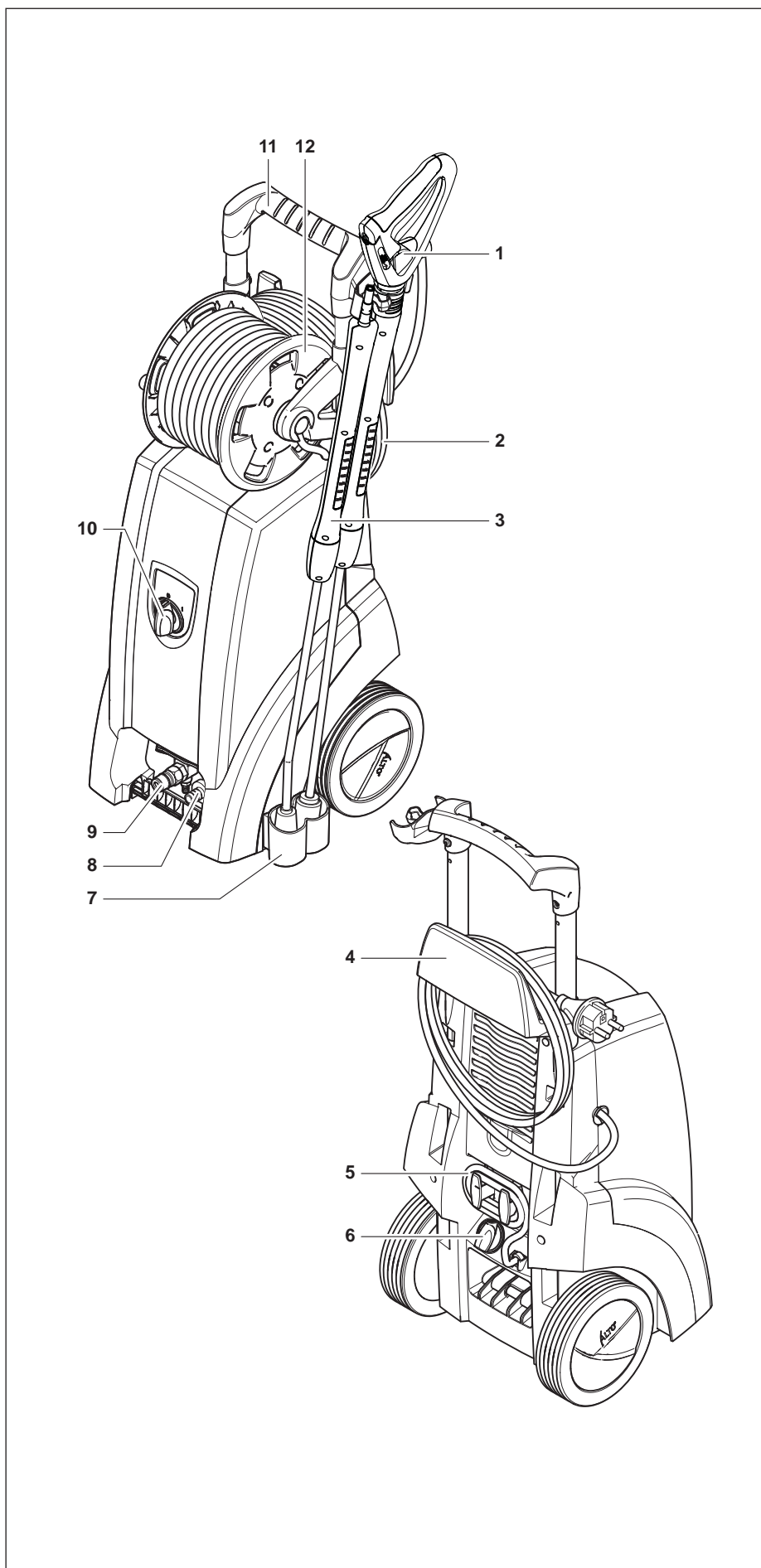


POSEIDON 3

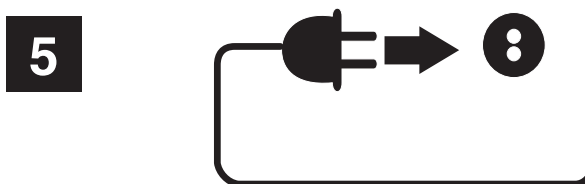
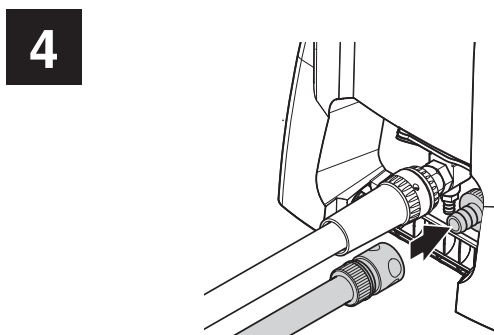
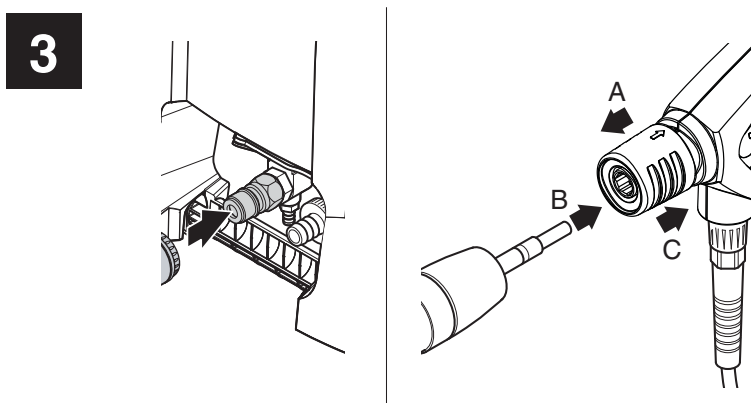
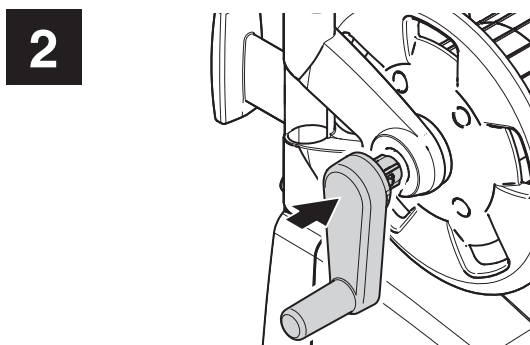
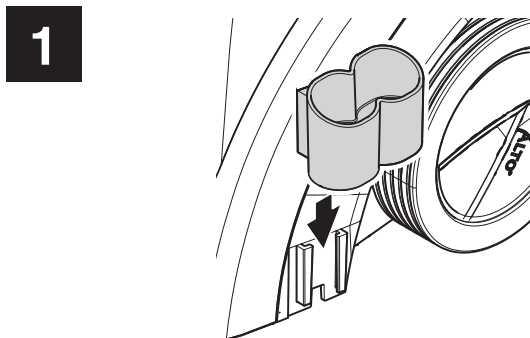


EN	Operating instructions	8
DE	Bedienungsanweisungen	14
FR	Instructions de fonctionnement	21
NL	Gebruiksaanwijzingen	28
IT	Istruzioni per l'uso	35
NO	Bruksanvisning	42
SV	Bruksanvisning	48
DA	Betjeningsvejledning	55
FI	Käyttöohje	62
SL	Navodila za delovanje	68
HR	Upute za uporabu	74
SK	Návod na obsluhu	80
CS	Návod k obsluze	86
PL	Instrukcje dotyczące obsługi	92
HU	Használati útmutató	99
RU	Руководство по эксплуатации	105
ES	Instrucciones de funcionamiento	112
PT	Instruções de Funcionamento	119
EL	Οδηγίες λειτουργίας	126
TR	Kullanma Talimatları	133

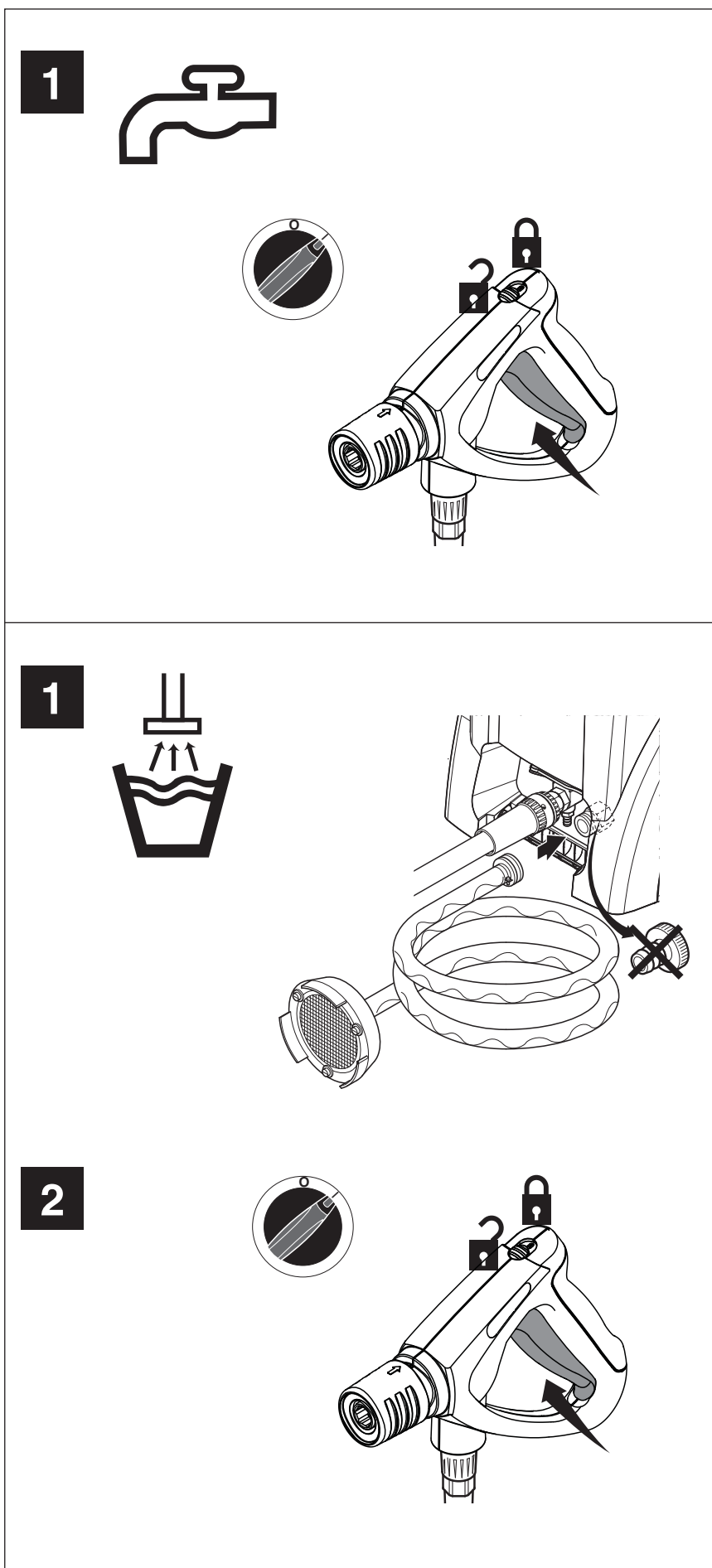
- Ⓒ **GB** Operating elements / Accessories
- Ⓒ **D** Bedienelemente / Zubehör
- Ⓒ **F** Eléments de commande / Accessoires
- Ⓒ **NL** Bedieningselementen / Toebehoren
- Ⓒ **I** Organi di comando / Accessori
- Ⓒ **N** Betjeningselementer / Tilbehør
- Ⓒ **S** Manöverelement / Tillbehör
- Ⓒ **DK** Betjeningselementer / Tilbehør
- Ⓒ **SF** Hallintalaitteet / Tarvikkeet
- Ⓒ **SLO** Elementi upravljanja / Pribor
- Ⓒ **HR** Elementi posluživanja / Pribor
- Ⓒ **SK** Ovládacie prvky / Príslušenstvo
- Ⓒ **CZ** Ovládací prvky / Příslušenství
- Ⓒ **PL** Elementy sterujące / Wyposażenie
- Ⓒ **H** Kezelőelemek / Tartozék
- Ⓒ **RUS** Органы управления / принадлежности
- Ⓒ **E** Elementos de manejo / Accesorios
- Ⓒ **P** Elementos de operação/ Acessórios
- Ⓒ **GR** Στοιχεία χρήσης / Συμπληρωματικός εξοπλισμός
- Ⓒ **TR** Kumanda elemanları / Aksesuarlar



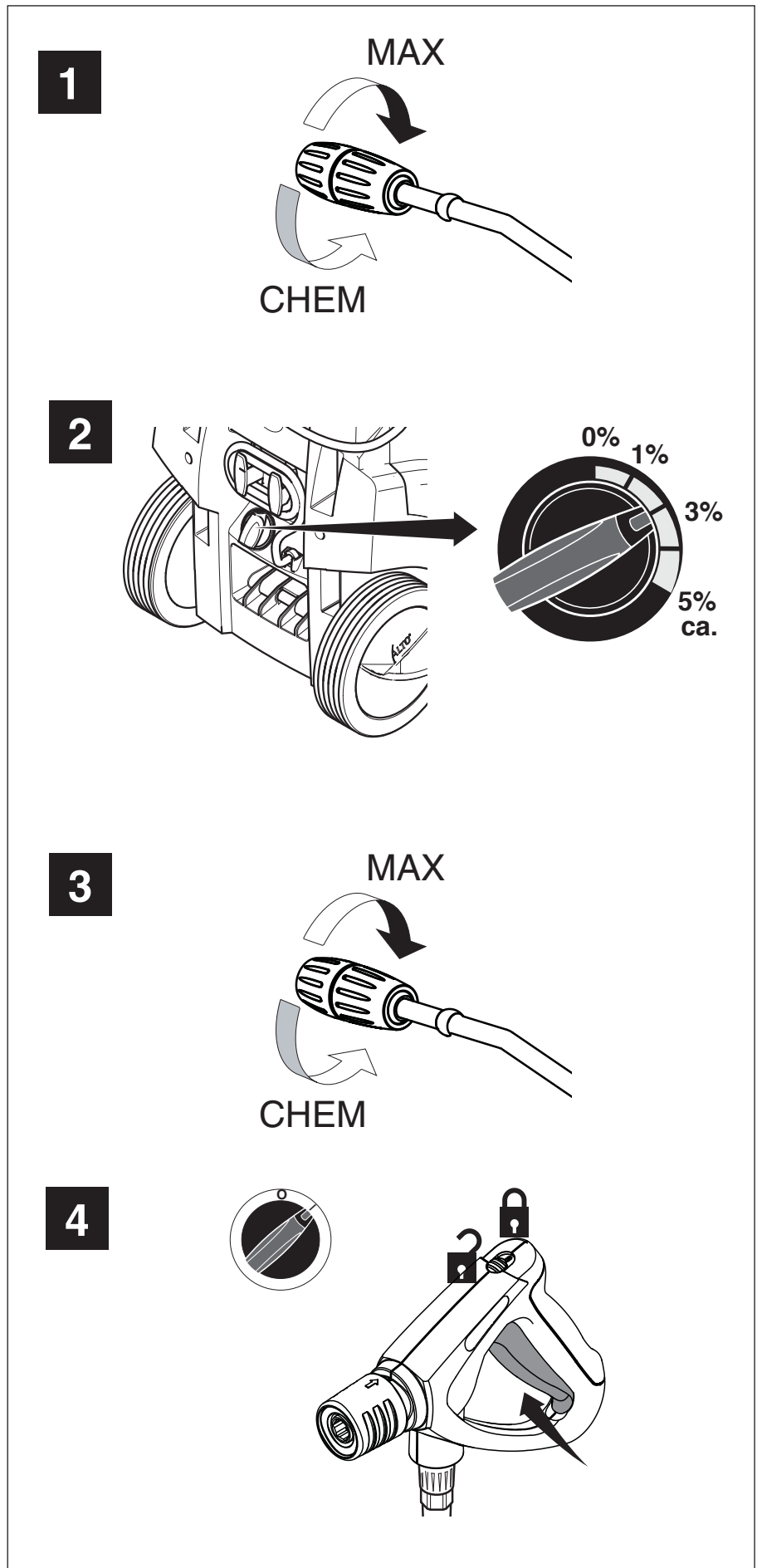
- Ⓒ **Assembling the cleaner**
- Ⓓ **Gerät zusammenbauen**
- Ⓕ **Assemble l'appareil**
- Ⓖ **Toestel samenbouwen**
- Ⓘ **Montaggio dell'apparecchio**
- Ⓝ **Montere maskinen**
- Ⓢ **Hopmontering av apparaten**
- ⒹⓀ **Samling af apparatet**
- ⓁⒶ **Laitteen kokoaminen**
- ⓁⒶ **Sestavitev naprave**
- ⒻⒶ **Sagraditi uređaj**
- ⓁⒶ **Zmontovat' spotřebič**
- ⒸⒶ **Montáž spotřebiče**
- ⓁⒶ **Montaż urządzenia**
- Ⓕ **A készülék összeállítása**
- ⒶⓈ **Сборка парочистителя**
- Ⓔ **Ensamblar el aparato**
- ⓁⒶ **Montar o aparelho**
- ⒶⒼ **Συναρμολόγηση συσκευής**
- ⒶⒼ **Cihazın montajı**



- (GB) Switching on the cleaner
 (D) Gerät einschalten
 (F) Mettre l'appareil en service
 (NL) Toestel inschakelen
 (I) Accensione dell'apparecchio
 (N) Slå på maskinen
 (S) Inkoppling av apparat
 (DK) Opstart af apparatet
 (SF) Laitteen käynnistäminen
 (SLO) Vklon naprave
 (HR) Uključiti uređaj
 (SK) Spotřebič zapnúť
 (CZ) Zapnutí přístroje
 (PL) Włączenie urządzenia
 (H) A készülék bekapcsolása
 (RUS) Включение пароочистителя
 (E) Conectar el aparato
 (P) Ligar o aparelho
 (GR) Ενεργοποίηση συσκευής
 (TR) Cihazın çalıştırılması

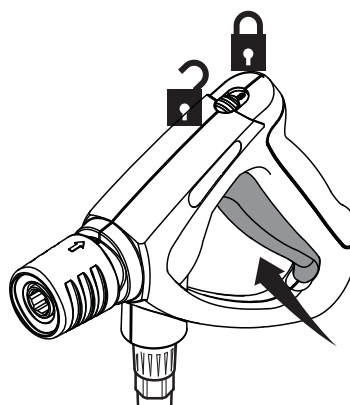


- (GB) Pressure regulation / Using cleaning agents
- (D) Druckregulierung / Verwendung von Reinigungsmitteln
- (F) Réglage de la pression / Emploi de détergents
- (NL) Drukregeling / Gebruik van reinigingsmiddelen
- (I) Regolazione della pressione/ Impiego di prodotti detergenti
- (N) Trykkregulering / Bruk av rengjøringsmidler
- (S) Tryckreglering / Användning av rengöringsmedel
- (DK) Trykregulering/ Brug af rengøringsmidler
- (SF) Paineensäätö suuttimella / Pesuaineiden käyttö
- (SLO) Reguliranje tlaka / Uporaba čistilnih sredstev
- (HR) Reguliranje tlaka / Uporaba sredstava za čišćenje
- (SK) Regulácia tlaku / Použitie čistiacich prostriedkov
- (CZ) Regulace tlaku / Používání čisticích prostředků
- (PL) Regulacja ciśnienia / Zastosowanie środków czyszczących
- (H) Nyomásszabályozás / Tisztítószer használata
- (RUS) Регулировка давления / Применение моющих средств
- (E) Regulación de la presión / Utilización de agentes de limpieza
- (P) Regulação de pressão / Emprego de produtos de limpeza
- (GR) Ρύθμιση πίεσης / Χρήση απορρυπαντικών
- (TR) Basınç ayarı / Temizlik maddelerinin kullanılması

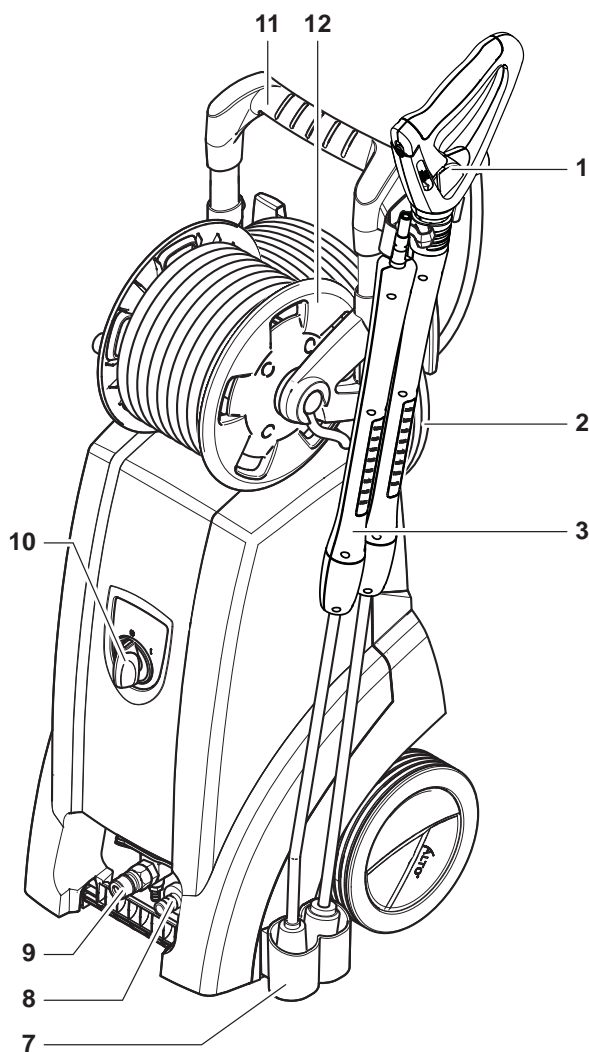


- (GB) Switching the cleaner off and storage
- (D) Gerät ausschalten und aufbewahren
- (F) Arrêter et ranger l'appareil
- (NL) Toestel uitschakelen en bewaren
- (I) Spegnimento e conservazione dell'apparecchio
- (N) Slå av maskinen, oppbevaring
- (S) Stänga av och förvara apparat
- (DK) Slukning af apparatet og opbevaring
- (SF) Laitteen sammuttaminen ja säilytys.
- (SLO) Izklop naprave in hranjenje
- (HR) Isključiti i pohraniti uređaj
- (SK) Nové naplnenia zásobníka
- (CZ) Vypnutí a skladování spotřebiče
- (PL) Wyłączenie i przechowywanie urządzenia
- (H) A készülék kikapcsolása és tárolása
- (RUS) Выключение и хранение пароочистителя
- (E) Desconexión y depósito del aparato
- (P) Desligar e guardar o aparelho
- (GR) Απενεργοποίηση και φύλαξη συσκευής
- (TR) Cihazın kapatılması ve muhafaza edilmesi

1



2





Important safety instructions



For your own safety

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

The appliance must

- only be used by persons, who have been instructed in its correct usage and explicitly commissioned with the task of operating it
- only be operated under supervision
- 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 should be supervised to ensure that they do not play with the appliance.

General

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

Besides the operating instructions and the binding accident prevention regulations valid in the country of use, observe recognised regulations for safety and proper use.

Do not use any unsafe work techniques.

Transport

Transport of the high-pressure cleaner is easy on its large wheels.

For safe transport in and on vehicles we recommend to prevent the equipment from sliding and tilting by fixing it with belts.

Transport (when tilted):

- do not tilt the machine on the

front with the water connections.

Before starting the cleaner

Before using the cleaner for the first time, check it carefully to detect any faults or damage. In the event of any damage contact your Nilfisk-Alto dealer immediately.

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

CAUTION!

Do not connect the cleaner directly to the public drinking-water mains. A connection is permitted, however:

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

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). Before use, check that the high-pressure cleaner is safe and in proper condition.

Regularly check whether the power cord is damaged or shows signs of ageing.

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

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

Before connecting devices with voltage changeover: Check that the pre-selected voltage on the machine corresponds with the

voltage of the electrical installation. Otherwise the electrical devices of the machine can be destroyed.

We strongly recommend that the power supply to the high pressure cleaner be connected via a residual current circuit breaker. This device stops the supply of electricity if the leakage current to earth exceeds 30 mA for 30 ms or it has an earth tester circuit.

Operate the cleaner only in an upright position!

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.

CAUTION!

High-pressure water jets can be dangerous if misused. The jet must not be directed at persons, animals, live electrical equipment or the cleaner itself. Wear appropriate protective clothing and eye protectors. Do not direct the jet towards yourself or towards other persons in order to clean clothes or footwear.



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.

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.

WARNING! Risk of explosion - Do not spray flammable liquids. Do not clean delicate parts made of rubber, fabric, etc. with the 0° jet. Keep some distance between high pressure nozzle and surface in order to prevent the surface from damage. Do not use the high-pressure hose for lifting loads.

NOTE!

The maximum permissible working pressure and temperature are printed on the high-pressure hose.

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

Ensure adequate air circulation. Do not cover the cleaner or operate it in inadequately ventilated rooms!

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

Water connection

This high pressure washer is only allowed to be connected with the drinking water mains, when an appropriate backflow preventer has been installed, Type BA according to EN 60335-2-79. The backflow preventer can be ordered under number 106411177, 106411178, 106411179, 106411184. The length of the hose between the backflow preventer and the high pressure washer must be at least 12 metres (min diameter 3/4 inch) to absorb possible pressure peaks. Operation by suction (for example from a rainwater vessel) is carried out without backflow preventer. Recommended suction set: 61256. As soon as water has flown through the BA valve, this water is not considered to be drinking water any more.



Control / Operation



CAUTION!

Unsuitable extension leads can represent a source of danger. Always unwind cord from the reels completely to prevent the power cord overheating.

Inadequate extension cables can be dangerous. If an extension cable is used, it shall be suitable for outdoor use, and the connection has to be kept dry and off the ground

Nilfisk recommends use of an extension cable drum when cable extension is needed which keeps the socket at least 60 mm above the ground.

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

Cable length m	Cross section	
	<16 A	<25 A
up to 20 m	ø1.5mm ²	ø2.5mm ²
20 to 50 m	ø2.5mm ²	ø4.0mm ²

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

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

CAUTION!

Never spray electrical equipment with water: danger for persons, risk of short-circuiting.

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

Switching on the cleaner may cause voltage fluctuations.

Voltage fluctuations should not occur if the impedance at the transfer point is less than 0.15 Ω. If in doubt ask your local electricity supplier.

Storing the cleaner (below 0° C)

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

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:



Maintenance and repair

The oil filling is permanent and rated for the full service life of the machine.

To achieve a long life and avoid problems with dirt in the gun, the coupling and nipple have to be kept clean.

The nipple on the lance has to be handled with care to prevent leaks.

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 Nilfisk-Alto spare parts. Do not make any technical modifications to the high-pressure cleaner.

Ensure that the machine is regularly serviced by Authorised Nilfisk-Alto dealers in accordance with the maintenance plan. Failure to do so will invalidate the warranty.

CAUTION!

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

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

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

Testing

The cleaner conforms to the German „Guidelines for Liquid



Spray Jet Devices“. The high-pressure cleaner must be subjected to a safety examination in accordance with the „Accident Prevention Regulations for Working with Liquid Spray Jet Devices (BGV A3)“ 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.w

Unloader valve

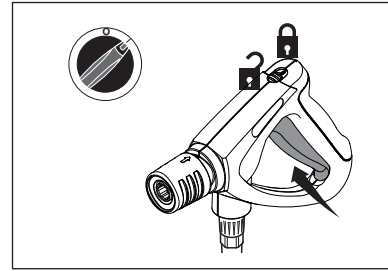
Unacceptably high pressure is fed back without residual pressure via a bypass line into the intake line of the pump when the safety device is tripped.

The unloader valve is set and sealed at the factory and must not be adjusted.

Safety devices

Locking device on spray gun:

The spray gun features a locking device. When the pawl is activated, the spray gun cannot be operated.



Thermal overcurrent circuit breaker:

A thermal current sensor protects the motor against overloading. The machine will restart after a few minutes when the thermal sensor has cooled.

Warning

- Inhalation of aerosols can be hazardous to health.
- Where applicable use a device in order to avoid or reduce aerosols production, e.g., a shield covering the nozzle.
- For protection against aerosols use a respiratory mask of class FFP 2 or higher.

Description

Purpose

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

- Agriculture
- industry
- transport industry
- automotive cleaning
- municipal facilities

- cleaning trade
- construction industry
- food industry
- etc.

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.

Control / Operation

Operating elements

- | | |
|----------------------------------|---|
| 1 Spray gun | 7 Receptacle for Spray lance |
| 2 Mains power lead | 8 Supply water connection with water inlet filter |
| 3 Spray lance | 9 High pressure hose connection |
| 4 Receptacle for electrical lead | 10 Main switch |
| 5 Detergent intake hose | 11 Handle |
| 6 Detergent metering knob | 12 Hose reel ¹⁾ |

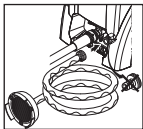
Using cleaning agents

Cleaning agent can be drawn in via the injector installed as standard only in low-pressure mode.

CAUTION!

Never allow cleaning agent to dry on the surface to be cleaned. The surface may be damaged.

Maintenance / Troubleshooting

Fault	Cause	Remedy
Pressure drop	<ul style="list-style-type: none"> > Air in the system > High pressure nozzle blocked worn > Pressure control on the spray pipe is not set correctly > Detergent tank empty 	<ul style="list-style-type: none"> • 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. • Clean/replace the high pressure nozzle • Set the required working pressure • Top up detergent tank or set detergent metering to "0"
Pressure fluctuations	<ul style="list-style-type: none"> > Pump draws in air (only possible in suction mode) > Lack of water > Water inlet hose is too long or its cross-section too small > Lack of water caused by blocked water filter  <ul style="list-style-type: none"> > Lack of water because max. permissible suction height has not been heeded 	<ul style="list-style-type: none"> • Check that the suction set is air-tight • Open water tap • Use specified water inlet hose • Clean the water filter in the water connection (never work without water filter) • See instructions
The motor does not start when the cleaner is switched on	<ul style="list-style-type: none"> > The plug is not inserted properly, i.e. there is no current > The mains fuse is switched off 	<ul style="list-style-type: none"> • Check the plug, lead and switch and if necessary have them replaced by a trained electrician • Switch on the mains fuse

Recycling the cleaner



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 and electronic appliances, used electrical goods must be collected separately and recycled ecologically. Contact your local authorities or your nearest dealer for further information. Guarantee

Guarantee

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



Technical Data

POSEIDON		3-24 /XT	3-26 /XT	3-30 /XT	3-40 /XT
Possible voltage, V/ph/Hz.	V/ph/Hz	240/1/50 (AU)	230/1/50 (GB, S)	"230/1/50 220/1/60 (EXP, KR) 110/1/50 (GB)"	"230-400/3/50 (NO) 220-440/3/60 (EXP) 400/3/50 415/3/50 (SG)"
Fuse	A	10	13	"16 15 (EXP, KR) 32 (GB)"	16
Power rating	kW	2,3	2,6	"3,4 3,3 (EXP, KR) 3,0 (GB)"	4,2
Working pressure p_{IEC}	bar (MPa)	95/9,5	"140/15 (GB) 130/13 (S)"	"145/14,5 135/13,5 (EXP, KR) (2000 psi) 130/13,0 (GB)"	170/17
Water flow Q_{IEC}	l/h	600	"570 (GB) 600 (S)"	"600 560 (EXP, KR) (2.4gal)"	750
Max. water pressure p_{max}	bar (MPa)	135/13,5	160/16	"160/16 150/15 (EXP, KR) (2175psi)"	200/20
Water flow Q_{max}	l/h	660	660	"660 (3gal)"	825
Max. Water inlet temp. inlet-pressure operation*	C°(F°)	"60(140) max. 1 hour"	"60(140) max. 1 hour"	"60(140) max. 1 hour"	"60(140) max. 1 hour"
Max. water inlet pressure	bar (MPa)	10 (1)	10 (1)	10 (1)	10 (1)
Max. dry suction height	m	1	1	1	1
Dimensions, l x w x h	mm				
Weight of cleaner	kg	35	35/37	35/37	36/38
Sound pressure level L_{PA} at a distance of 1 m	dB(A)	78,7	78,7	78,7	82,3
Guaranteed sound power level L_{WA}	dB(A)	93	93	93	97
Vibration ISO 5349	m/s ²	<1,5; ±1	<1,5; ±1	<1,5; ±1	<1,5; ±1
Recoil forces, lance 1 / lance 2	N	23,5	27,5	"28,4 25,5(EXP, KR)"	39

Specifications and details are subject to change without prior notice

*For periods of max. 1 hour a water temperature of max. 60°C is allowed

EU Declaration of Conformity

We,

Nilfisk-Advance A/S
Sognevej 1
DK-2605 Broendby
DENMARK

Hereby solely declare, that the product:

Product	Description	Type
HPW - Professional	See data table	Poseidon 3-24, Poseidon 3-26 /XT, Poseidon 3-30 /XT

Is in compliance with the following standards:

Id and Version	Title
EN 60335-1:2012	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 60335-2-79:2012	Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners
EN 55014-1:2006+A1:2009+A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-2:1997+A1:2001+A2:2008	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 61000-3-2:2006 +A1:2009+A2:2009	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase)
EN 61000-3-11:2000	EMC - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 75 A per phase and subject to conditional connection

Following the provisions of:

Machinery Directive 2006/42/EC

EMC Directive 2004/108/EC

RoHS Directive 2011/65/EC

Noise Emission Directive 2000/14/EC – Conformity assessment procedure according to Annex V.

- Measured noise level: 79 dB;

- Guaranteed noise level: 93 dB

Hadsund 23-05-2014

Anton Sørensen,
GM - Technical Operations

Place	Date	Name & Title	Signature
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Nilfisk ALTO

works for you

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