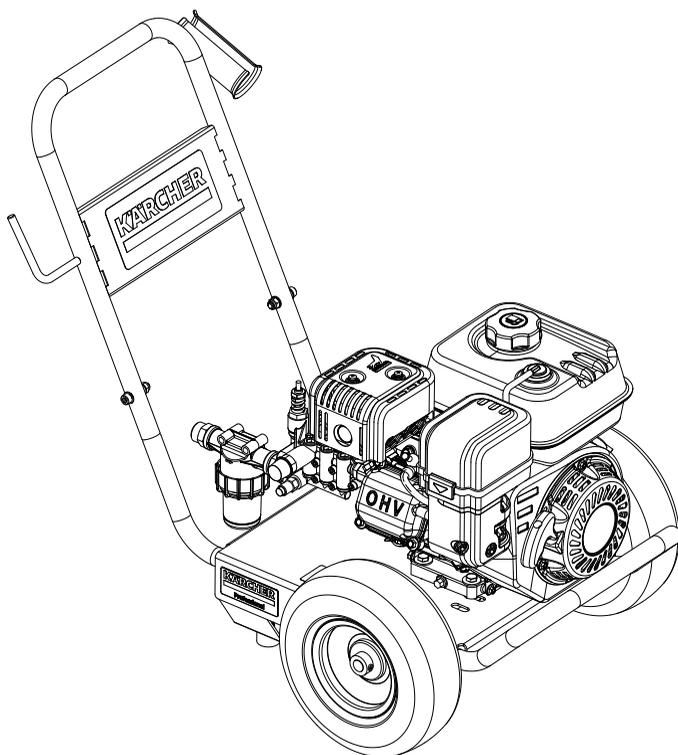


# KÄRCHER

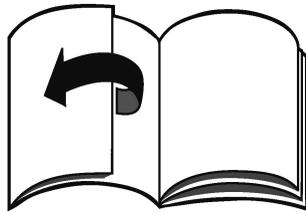
**HD 7/20 G Classic**  
**HD 8/23 G Classic**  
**HD 9/25 G Classic**

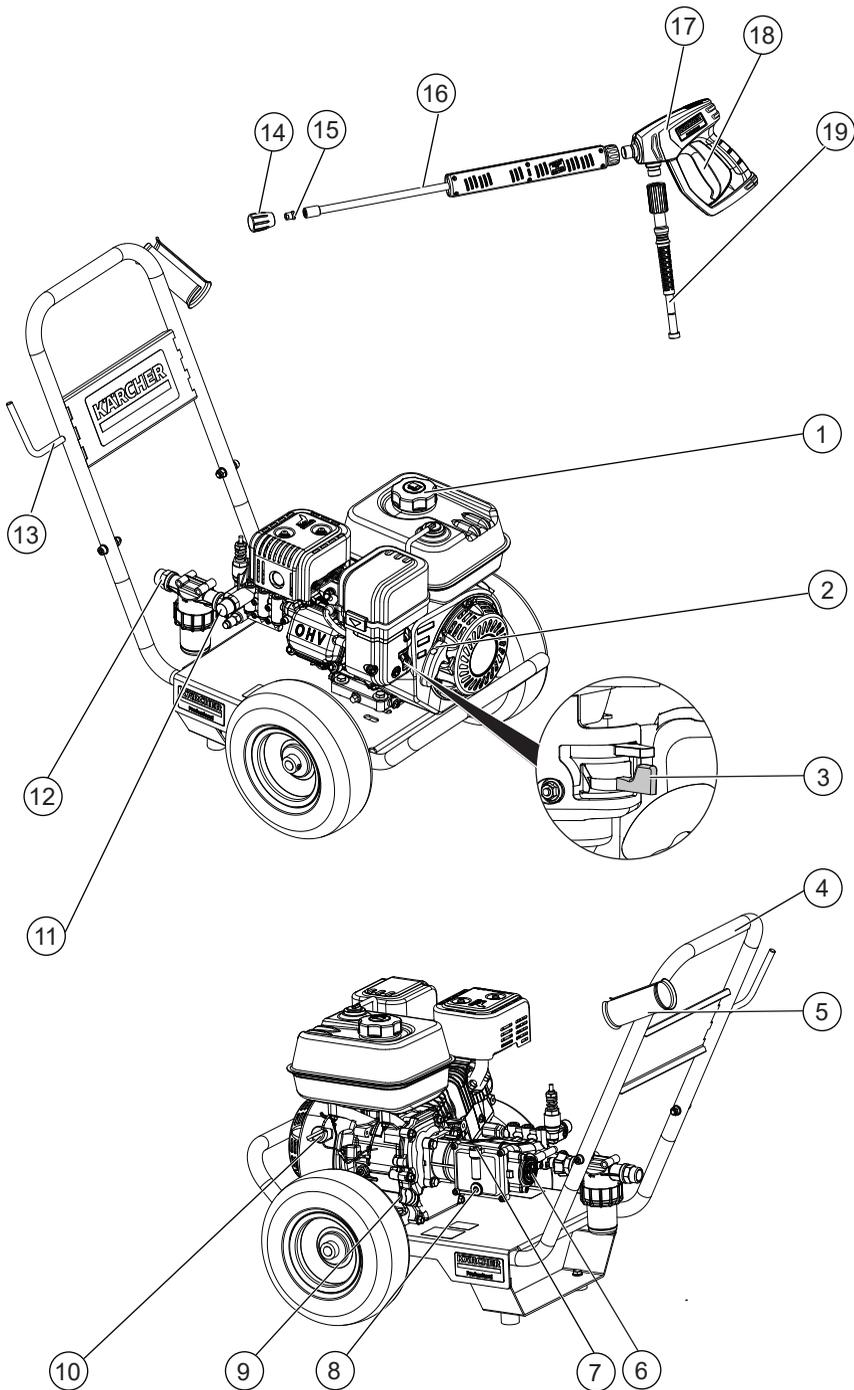


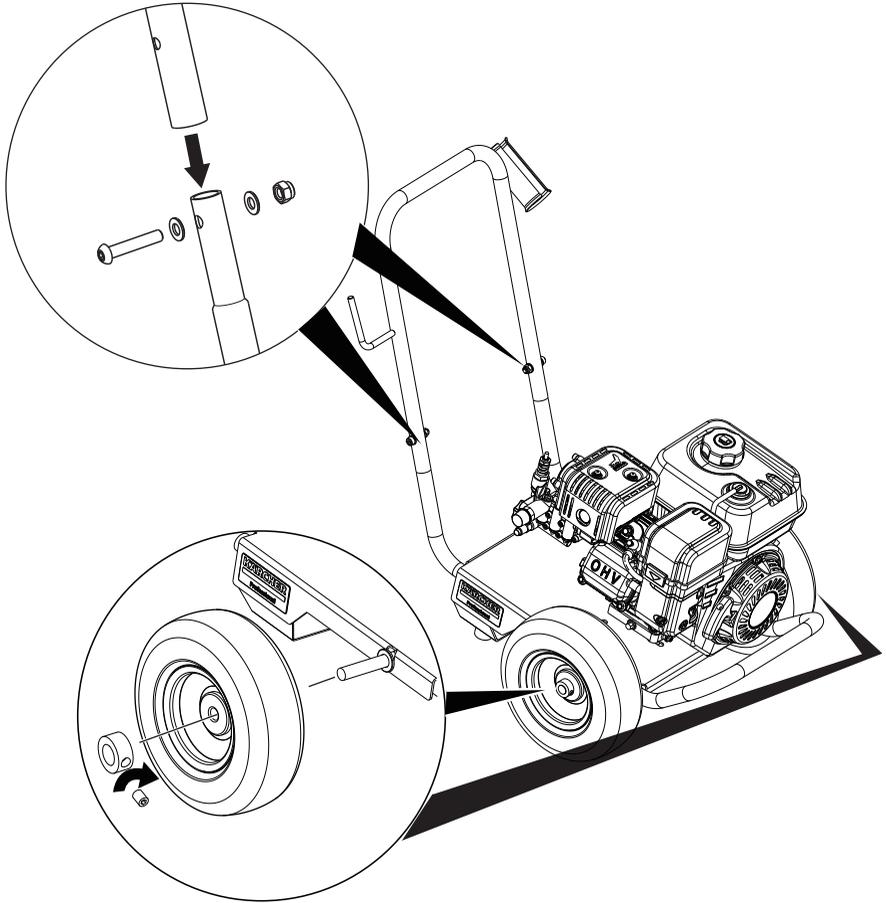
**Register  
your product**  
[www.kaercher.com/welcome](http://www.kaercher.com/welcome)

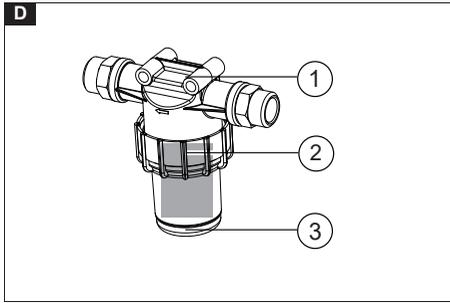
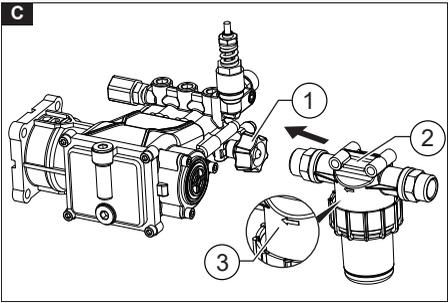


97687620 (11/22)









## Contents

General notes.....	6
Intended use.....	6
Environmental protection.....	6
Accessories and spare parts.....	6
Scope of delivery.....	6
Symbols on the device.....	6
Safety instructions.....	7
Safety devices.....	7
Device description.....	7
Colour coding.....	7
Initial start-up.....	7
Operation.....	8
Transportation.....	9
Storage.....	9
Care and service.....	9
Troubleshooting guide.....	10
Warranty.....	10
Safety instructions High-pressure cleaner.....	10
Technical data.....	13

## General notes



Read these original operating instructions and the enclosed safety instructions before using the device for the first time. Proceed accordingly. Keep both books for future reference or for future owners.

## Intended use

Use this high-pressure cleaner only for the following types of work:

- The high-pressure jet is intended exclusively for cleaning, e.g. machines, vehicles, structures, tools, facades, terraces and garden equipment.

We recommend using a dirt blaster as a special accessory for stubborn soiling.

The device is suitable for operation in altitudes of up to 500 m. For operation in higher altitudes the engine must be adapted by the KÄRCHER Customer Service.

### **⚠ DANGER**

**Operating the device at gas stations or other dangerous areas**

*Risk of injury!*

*Follow the respective safety regulations.*

#### **Note**

*Please do not let waste water contaminated with mineral oil reach soil, water or the sewage system. Only clean the engine and the engine bottom in a suitable site with an oil trap.*

## Water supply limit values

### **ATTENTION**

#### **Dirty water**

*Premature wear and tear or deposits in the device. Supply the device using only clean water, or recycled water that does not exceed the specified limit values.*

The following limit values apply to the water supply:

- pH value: 6.5-9.5
- Electrical conductivity: Conductivity of fresh water + 1200 µS/cm, maximum conductivity 2000 µS/cm
- Settleable particles (sample volume 1 l, settling time 30 minutes): < 0.5 mg/l

- Filterable particles: < 50 mg/l, no abrasive substances
- Hydrocarbons: < 20 mg/l
- Chloride: < 300 mg/l
- Sulphate: < 240 mg/l
- Calcium: < 200 mg/l
- Total hardness: < 28 °dH, < 50° TH, < 500 ppm (CaCO<sub>3</sub> mg/l)
- Iron: < 0.5 mg/l
- Manganese: < 0.05 mg/l
- Copper: < 2 mg/l
- Active chloride: < 0.3 mg/l
- Free of unpleasant odours

## Environmental protection



The packing materials can be recycled. Please dispose of packaging in accordance with the environmental regulations.



Electrical and electronic appliances contain valuable, recyclable materials and often components such as batteries, rechargeable batteries or oil, which - if handled or disposed of incorrectly - can pose a potential threat to human health and the environment. However, these components are required for the correct operation of the appliance. Appliances marked by this symbol are not allowed to be disposed of together with the household rubbish.

### **Notes on the content materials (REACH)**

Current information on content materials can be found at: [www.kaercher.com/REACH](http://www.kaercher.com/REACH)

## Accessories and spare parts

Only use original accessories and original spare parts. They ensure that the appliance will run fault-free and safely.

Information on accessories and spare parts can be found at [www.kaercher.com](http://www.kaercher.com).

## Scope of delivery

Check the contents for completeness when unpacking. If any accessories are missing or in the event of any shipping damage, please notify your dealer.

## Symbols on the device

Risk of burns from hot surfaces.



Do not aim the high-pressure jet may at persons, animals, live electrical equipment or the device itself.

Protect the device against frost.



According to applicable regulations, the device must never be used with the drinking water network without a system separator. Ensure that the connection to your house water system, with which the high-pressure cleaner is operated, is equipped with a system separator according to EN 12729 type BA. Water that has flowed through a system separator is classified as undrinkable. Always connect the system separator to the water inlet and never directly to the device.

Health risk from poisonous exhaust gases. Never inhale the exhaust gases.





Flammable



No smoking is allowed.



Fires, sparks, open flames and smoking are prohibited.



Observe notes in the instructions for the battery, on the battery and in these operating instructions.



Warning

## Safety instructions

- It is essential that you read the safety instructions before initial start-up.
- Observe the national regulations for liquid jet cleaners.
- Observe the national accident prevention regulations. Liquid jet cleaners must be tested regularly. The test result must be recorded in writing.
- Do not modify the device or accessories.

### **⚠ DANGER**

- *Do not operate the device if fuel has been spilled. In such a case, move the device to another location and avoid any sparking.*
- *Do not store fuel in the proximity of naked flames or devices such as ovens, heating boilers, water heaters, etc. that have a pilot light or may generate sparks. Do not use or spill fuel in the above environment.*
- *Keep easily flammable objects at least 2 m away from the muffler.*
- *Do not operate the device without a muffler. Check the muffler regularly and clean or replace it if necessary.*
- *Do not operate the device in forests, bushy or grassy areas if the exhaust pipe is not equipped with a spark catcher.*
- *Do not run the motor with the air filter removed or without a cover over the intake opening.*
- *Do not adjust any control springs, governor control linkage or other parts that could increase the speed of the motor.*
- *Do not touch any hot parts such as the muffler, cylinder or cooling fins.*
- *Never bring your hands and feet close to rotating parts.*
- *Never operate the device in confined spaces.*
- *Do not use unsuitable fuels as they can be dangerous.*

## Safety devices

### **⚠ CAUTION**

**Missing or modified safety devices**  
Safety devices are provided for your own protection. Never modify or bypass safety devices.

## Safety lever

The safety lever on the high-pressure gun prevents the device from being switched on inadvertently.

## Overflow valve

If the high-pressure gun is closed, the overflow valve opens and the entire water volume will flow back to the pump suction side.

The overflow valve is set by the manufacturer and sealed. Setting shall only be carried out by Customer Service.

## Safety valve

The safety valve opens if the pressure relief valve is faulty.

The safety valve is set and sealed at the factory. The adjustment is made by Customer Service.

## Thermostat valve on the pump

The thermostat valve opens when the maximum permissible water temperature is exceeded and discharges the hot water outdoors.

## Device description

### Illustration A

- ① Fuel tank
- ② Starter rope (device for manual start)
- ③ Fuel valve
- ④ Push handle
- ⑤ High-pressure gun storage clip
- ⑥ Oil level indicator
- ⑦ Oil fill screw (pump)
- ⑧ Oil drain screw (pump)
- ⑨ Oil dip (engine)
- ⑩ Engine switch
- ⑪ High-pressure connection
- ⑫ Water connection with filter
- ⑬ Hose holder
- ⑭ Nozzle screws
- ⑮ High-pressure nozzle
- ⑯ Spray lance
- ⑰ High-pressure gun
- ⑱ Lever for high-pressure gun
- ⑲ High-pressure hose

## Colour coding

- Control elements for the cleaning process are yellow.

## Initial start-up

### **⚠ DANGER**

#### **Risk of injury!**

*Device, tubes, high-pressure hose and connections must be in faultless condition.*

*Otherwise, the device must not be used.*

## Unpacking

1. Check the contents of the package when unpacking.
2. Notify the dealer immediately in the case of shipping damage.

## Checking the oil level in the high-pressure pump

1. Place the device on a flat and level surface.
2. Check the high-pressure pump oil level at the oil level indicator.  
The oil level must be in the middle of the oil level indicator.
3. Top up the oil if necessary. For oil type, see Chapter *Technical data*.

## Starting up the engine

1. Before initial start-up of the engine, read the original instructions for the engine and observe the safety instructions.

## Check the engine oil level

1. Check the oil level in the engine.  
Do not start up the device if the oil level is low.
2. Top up the oil if necessary. For oil type see Chapter *Technical data*.

## Topping up with fuel

### **⚠ DANGER**

#### **Unsuitable fuel**

#### *Risk of explosion*

Only fill with petrol. Unleaded petrol (86 RON) can be used.

1. Open the fuel tank cap.
2. Fill the fuel tank with fuel.
3. Close the cap of the fuel tank.
4. Wipe up any spilled fuel.

## Installing water filter

### **Note**

Please follow the direction of the mark on the water filter.

### **Illustration C**

- ① Union joint
- ② Water filter
- ③ Arrow

1. Attach the water filter, the arrow must point to the pump.
2. Fasten the union joint on the pump.

## Installing the pushing handle and wheels

### **Illustration B**

1. Put the push handle on the base frame.
2. Secure the push handle with the screws and nuts.
3. Push the wheels onto the axle.
4. Push the fastener onto the axle and tighten the screws.

## Installing the accessories

1. Connect the spray lance to the high-pressure gun.
2. Install the nozzle with the nozzle screw at the spray lance.
3. Screw the high-pressure hose to the high-pressure gun.
4. Fasten the high-pressure hose to the high-pressure connection.

## Water connection

### Connection to a water line

### **⚠ WARNING**

**Health risk from return flow of contaminated water into the drinking water network.**

Observe the regulations of your water supply company.

1. Check the feed pressure, input temperature and input amount of the water supply. See Chapter *Technical data* for the requirements.
2. Connect the system separator and water connection of the device with a hose (minimum length 7.5 m, minimum diameter 3/4").  
The supply hose is not included in the scope of delivery.
3. Open the water inlet.

## Venting the device

1. Open the water inlet.
2. Remove the high-pressure nozzle.
3. Start the engine according to the original instructions for the engine.
4. Allow the device to run until the escaping water is free of air bubbles.
5. Switch off the device.
6. Fit the high-pressure nozzle.

## Operation

### **⚠ DANGER**

#### **Risk of explosion!**

Flammable liquids or gases can ignite or cause an explosion.

Do not spray flammable liquids. Do not operate this device in hazardous areas (e.g. filling stations).

### **⚠ CAUTION**

#### **Environmental damage.**

Clean engines at places with a suitable oil separator on-ly.

## Turning on the Device

1. Open the water supply.
2. Start the engine with the high-pressure gun actuated according to the operating instructions of the engine manufacturer.

### **ATTENTION**

#### **Risk of damage**

Do not pull the starter rope when the engine is running.

#### **Note**

The high-pressure nozzle can be removed to facilitate the start-up process.

- Press the lever on the high-pressure gun as long as necessary until the engine starts.

## Replacing the nozzle

### **⚠ DANGER**

#### **Risk of injury!**

Switch the device off prior to replacing nozzle and do not activate hand spray gun until the device is pressureless.

1. Secure the high-pressure gun. To do so, push the safety lever towards the front.
2. Unscrew nozzle screws and remove the nozzle.
3. Put on a new nozzle.
4. Screw on the nozzle screws and tighten them by hand.

## Interrupting operation

1. Close the high-pressure gun to interrupt operation.
2. Open the high-pressure gun to continue operation again.
3. In case of extended interruptions (several minutes), switch off the engine.
4. Activate the high-pressure gun until the device is pressureless.
5. Secure the hand spray gun using the safety lever so that it doesn't open accidentally.

### Note

When the lever of the high-pressure gun is released, the engine continues to run at zero speed. The water thus circulates within the pump and gets heated. When the cylinder head at the pump has reached the maximum permissible temperature (65 °C), the therm-valve opens. Hot water is drained. Cold water will follow and cool the pump.

## Finishing operation

After operating the water using saline water (sea water), open the high-pressure gun and rinse the device for at least 2 - 3 minutes using tap water.

1. Set the engine switch to "OFF" and close the fuel valve.
2. Shut off the water supply.
3. Activate the high-pressure gun until the device is pressureless.
4. Press the safety lever of the high-pressure gun to secure the lever of the pistol against being released accidentally.
5. Remove the water inlet hose from the device.

## Transportation

### ⚠ CAUTION

#### Risk of injury, risk of damage

Be aware of the weight of the device during transport.

1. Place the spray lance with the high-pressure gun on the hooks.
2. Coil up the high-pressure hose and hang it over the hook.
3. Push the push handle down, and pull / push the device.
4. When transporting the device in vehicles, secure the device against shifting and tipping over.

## Storage

### ⚠ CAUTION

#### Failure to observe the weight

Risk of injury and damage

Be aware of the weight of the device during storage.

Store the device indoors only.

## Frost protection

### ATTENTION

Frost destroys the device if it is not completely drained of water.

Store the device in a frost-free location.

If frost-free storage is not possible:

1. Drain excess water.
2. Pump commonly available anti-freeze through the device.
3. Allow the device to run for a maximum of 1 minute until the pump and lines are empty.

### Note

Use commonly available, Glycol-based vehicle anti-freeze. Observe the handling instructions of the anti-freeze manufacturer.

## Care and service

### ATTENTION

#### Danger due to device inadvertently starting up

Risk of injury

Switch off the engine switch and remove the spark plug connector prior to all work on the device.

### ⚠ CAUTION

#### Hot surfaces

Risk of injury

Allow the device to cool down prior to all work.

### Note

Observe the information on care and service in the original instructions for the motor.

## Safety inspection/maintenance contract

You can agree on regular safety inspections or close a maintenance contract with your dealer. Please seek advice on this.

## Maintenance intervals

### Each time before use

- Check the high-pressure hose for damage. Immediately replace a damaged high-pressure hose.
- Check the device for leaks. 3 drops of water per minute are permissible. Contact Customer Service in the case of more serious leaks.

### Weekly

1. Check the oil level of the engine and pump. Contact Customer Service if the oil is milky (water mixing with the oil).
2. Clean the water filter, see Chapter *Cleaning the water filter*.

### After the first 50 operating hours

Replace the oil in the high-pressure pump.

### After 100 operating hours

1. Replace the oil in the engine.
2. Carry out maintenance tasks on the engine according to the specifications provided in the operating instructions of the engine.

### Every 500 operating hours, at least once annually

Have the device maintained by Customer Service.

## Maintenance work

### Cleaning the water filter

1. Shut off the water inlet.
2. Unscrew the filter cup.

#### Illustration D

- ① Water filter
- ② Filter nut
- ③ Filter chamber
3. Pull the filter insert downwards and off.
4. Clean the filter insert and filter cup.
5. Re-install the filter insert.
6. Screw on the filter cup again and tighten.

### Replacing the oil in the high-pressure pump

For the oil type and filling quantity, see Chapter *Technical data*.

1. Provide a catch pan for at least 1 litre of oil.
2. Unscrew the oil drain plug.

3. Drain the oil into the catch pan.
4. Screw in the oil drain plug.
5. Slowly fill with new oil until the middle of the oil level indicator is reached. Air bubbles must be able to escape.

## Troubleshooting guide

### **⚠ DANGER**

**Risk of injury if the device is left running in an unattended state.**

Switch off the engine and remove the spark plug connector before performing any work on the device.

**Risk of burns!**

*Do not touch hot mufflers, cylinders or radiator ribs. In case of any malfunctions not mentioned in this chapter, contact the authorised Customer Service when in doubt or when you have been explicitly advised to do so.*

Fault	Remedy
Device does not start	<ul style="list-style-type: none"> <li>● Follow operating instructions of the motor manufacturer!</li> <li>● Contact Customer Service if necessary.</li> </ul>
Device does not reach required pressure	<ul style="list-style-type: none"> <li>● Check operating speed of the motor.</li> <li>● Check the size of the nozzle and compare with the required size specified in the chapter <i>Technical data</i>.</li> <li>● Vent the device, see Chapter <i>Venting the device</i>.</li> <li>● Clean the water filter.</li> <li>● Check the water supply volume and compare with the required volume specified in the chapter <i>Technical data</i>.</li> <li>● Clean all inlet pipes to the pump.</li> <li>● Contact Customer Service if necessary.</li> </ul>
Pump leaking Up to 3 drops of water per minute are permissible.	<ul style="list-style-type: none"> <li>● In case of more serious leaks, have the device checked by Customer Service.</li> </ul>
Pump knocking	<ul style="list-style-type: none"> <li>● Clean the water filter.</li> <li>● Check the water supply line for leaks.</li> <li>● Vent the device, see Chapter <i>Venting the device</i></li> <li>● Contact Customer Service if necessary.</li> </ul>

## Warranty

The warranty conditions issued by our relevant sales company apply in all countries. We shall remedy possible malfunctions on your appliance within the warranty period free of cost, provided that a material or manufacturing defect is the cause. In a warranty case, please contact your dealer (with the purchase receipt) or the next authorised customer service site. (See overleaf for the address)

### **⚠ CAUTION**

- Indication of a potentially dangerous situation that may lead to minor injuries.

### **ATTENTION**

- Indication of a potentially dangerous situation that may lead to damage to property.

### Protective gear

**⚠ CAUTION** ● Wear suitable gloves when working with the device. ● Wear hearing protection whenever a sound pressure level over 80 dB(A) is specified in the operating instructions. See chapter *Technical data* in the operating instructions. ● Wear suitable protective clothing and safety goggles to protect yourself from water or dirt backsplash. ● Aerosols can be formed when using high-pressure cleaners. Inhaling aerosols can be harmful for your health. Employers are obliged to perform a hazard assessment in order to define, depending on the surface to be cleaned and the environment, protective measures necessary to prevent inhalation of aerosols. Respiratory protection masks of class FFP 2 or above are suitable for protection against aqueous aerosols. ● Exhaust gases and soot may be produced during the use of hot water high-pressure cleaners with combustion engines. Inhaling exhaust gas and touching soot can cause damage to health. Necessary protective measures against inhalation of exhaust gases and contact with soot shall be specified. Please use a suitable respiratory mask for protection from exhaust gas and suitable gloves for protection from soot.

## Safety instructions High-pressure cleaner



Read these safety instructions and the original instructions before using the device for the first time. Act in accordance with them. Keep the two booklets for future reference or for future owners.

- In addition to the notes in the operating instructions, you also need to take into consideration the general safety regulations and accident prevention guidelines applicable by law.
- Warnings and information notices attached to the device provide important information for hazard-free operation.

### Hazard levels

#### **⚠ DANGER**

- Indication of an imminent threat of danger that will lead to severe injuries or even death.

#### **⚠ WARNING**

- Indication of a potentially dangerous situation that may lead to severe injuries or even death.

## General safety instructions

**⚠ DANGER** • Risk of asphyxiation. Keep packaging film out of the reach of children.

**⚠ WARNING** • Only use the device for its proper use. Take into account the local conditions and beware of third parties, in particular children, when working with the device. • The device is not intended for use by persons with restricted physical, sensory or mental abilities or those lacking in experience and / or lacking in knowledge. • Only people who have been instructed on how to use the device, or have proven their ability to operate it, and have been explicitly instructed to use it, must use the device. • Children must be supervised to prevent them from playing with the appliance. • Children and minors must not use the device.

**⚠ CAUTION** • Safety devices are provided for your own protection. Never modify or bypass safety devices.

## Risk of electric shock

**⚠ DANGER** • Only connect protection class I devices to properly earthed power sources. • The voltage indicated on the type plate must match the voltage of the power source. • Take into account the minimum protection required for the socket, see chapter Technical data in the operating instructions. • Only operate the device via a fault current protection switch (maximum 30 mA). • Never touch the mains plug and socket with wet hands. • The mains plug and coupling of the extension cable must be water tight and may not be placed in water. The coupling may not be on the floor. Use cable drums to ensure that the sockets are at least 60 mm above the floor. • All live parts in the work area must be protected against water jets.

**⚠ WARNING** • Only connect the device to an electrical connection which has been set up by a qualified electrician as per IEC 60364-1. • Check the power supply cable with mains plug for damage before operation each time. Do not put the device into operation with a damaged power supply cable. Have a damaged power supply cable replaced immediately by the authorised customer service / qualified electrician. • Do not damage the power supply and extension cable by running over it, crushing or yanking it or similar. Protect the power supply cable from heat, oil and sharp edges. • Only use the mains connection cable prescribed by the manufacturer, including when replacing the cable. For order no. and type see operating instructions. • Unsuitable electrical extension cables can be dangerous. Only use approved and appropriately marked electrical extension cables with a sufficient cable cross section for outdoors. • Only replace couplings on the power supply or extension cable using those with the same water density and the same mechanical strength.

**⚠ CAUTION** • In case of longer breaks in operation and after use, switch off the device at the main switch / device switch and pull the mains plug.

**ATTENTION** • Switch-on procedures will generate short-term voltage drops. • Unfavourable mains conditions may cause other devices to be impaired. • In case of a network impedance of less than 0.15 ohms, no malfunctions are to be expected.

## Water connection

**⚠ WARNING** • The device must not be started up if the high-pressure hose is damaged. Replace a damaged high-pressure hose at once. Only those hoses and connections recommended by the manufacturer may be used. For order no. see operating instructions. • The screw connections of all connection hoses must be leak-tight.

**ATTENTION** • Observe the regulations at your water distribution company.

## Operation

**⚠ DANGER** • When using the device in hazard zones (e.g. service stations), adhere to the respective safety regulations. • Operation in explosive atmospheres is prohibited. • Never suction solvents, liquids containing solvents or undiluted acids. This includes e.g. petrol, paint thinner or heating oil. The spray mist is highly flammable, explosive and poisonous. • Damaged wheels / tyre valves are extremely dangerous. Damaged wheels / tyre valves can be damaged by the high-pressure jet and explode. The first sign of this is discolouration of the tyres. Keep a spray distance of at least 30 cm when cleaning the wheels / tyre valves.

**⚠ WARNING** • Do not use the device if people without the proper protective clothing are in its reach. • With short spray lances, your hand may come into contact with the high-pressure jet. Never use a spotlight nozzle or rotary nozzle with steel tubes that are shorter than 75 cm. • A recoil force will arise due to the water stream ejecting from the spray lance. An angular spray lance produces a force that acts in upward direction. Make sure you grip the gun and spray lance firmly. • When using angular spray units, recoil forces and twisting forces may alter. • Do not aim the high-pressure jet at yourself, e.g. to clean clothes or shoes. • Do not direct the high-pressure jet at persons, animals, live electrical equipment or at the device itself. • Do not spray any objects which contain harmful substances (e.g. asbestos). • Check the device and the accessories, such as the high-pressure hose, high-pressure gun and safety devices, to make sure they are in proper safe and reliable condition before each operation. Do not use the device if it is damaged. Replace damaged components immediately. • Only use high-pressure hoses, control panels and couplings specified by the manufacturer.

**⚠ CAUTION** • Never leave the device unsupervised while it is in operation. • Never open the cover while the motor is running. • Never clamp the lever of the high-pressure gun during operation. • Allow the hoses to cool down after hot water operation or operate the device briefly using cold water operation. • The device must be placed on an even, firm subsurface. • Before cleaning, carry out a risk assessment of the surface to be cleaned to determine any health and safety protection requirements. The necessary protective measures must be taken accordingly.

**ATTENTION** • Do not operate the device at temperatures below 0 °C. • Only clean the motor at washing stations with an oil separator.

## Operation with detergent

**⚠ CAUTION** • Keep the detergent out of the reach of children. • When using detergents, observe the safety data sheet of the detergent manufacturer, in par-

ticular instructions on protective gear. • Only use the detergents supplied or specified by the manufacturer. The use of other detergents or chemicals can impair the safety of the device. • Never use the recommended detergents undiluted. These products are operationally safe since they do not contain any acids, alkali or substances that are harmful to the environment. Should detergents come into contact with eyes, rinse these out immediately and thoroughly using water and seek medical attention immediately. The same applies if detergents are swallowed.

**Device with a hand-arm vibration value > 2.5 m/s<sup>2</sup>**  
(see chapter **Technical Data** in the operating instructions)

### **⚠ CAUTION**

- Using the device for longer periods can cause poor circulation in the hands due to vibrations. A general period of use cannot be set, because this depends on several influencing factors:
- Personal tendency to suffer from poor circulation (frequently cold fingers, tingling sensation in the fingers)
- Low ambient temperature. Wear warm gloves to protect your hands.
- Holding the device too tightly hindering blood circulation.
- Continuous operation is more harmful than operation interrupted by work breaks.

You should see a doctor if using the device regularly and for lengthy periods of time, and in the event of repeated occurrences of symptoms such as tingling in the fingers or cold fingers.

### **Devices with pneumatic tyres**

- **⚠ CAUTION** • In case of devices with screw-in wheel rims: Make sure that all wheel rim bolts are tightened securely before setting the tyre filling pressure.
- Make sure that the pressure reducer is set correctly on the compressor before setting the tyre filling pressure. • Never exceed the maximum permissible tyre filling pressure. The tyre filling pressure needs to be read on the tyre and if necessary on the wheel rim. If these values differ, use the smaller value.

### **Hot water and petrol-driven devices, devices with a combustion engine**

**⚠ DANGER** • Explosion hazard due to unsuitable fuel. Only fill the fuel specified in the operating instructions.

**⚠ WARNING** • Exhaust gases are toxic. Never breathe in the exhaust gases. Ensure rooms where the device is operated are sufficiently ventilated and that exhaust gases can be conducted away. • During tanking, make sure that no fuel gets on hot surfaces.

**⚠ CAUTION** • Risk of burns. Never bend down over the exhaust gas opening and never reach inside it. Do not touch the heating boiler while the burner is in operation. • Never close off exhaust gas openings. • Make sure that no exhaust gases are emitted close to air vents. • Observe the safety instructions for petrol-driven devices in the operating instructions.

### **Care and service**

**⚠ WARNING** • Prior to cleaning, maintenance and replacement of parts, the device needs to be switched off and the mains plug removed with mains op-

eration devices. • Depressurise the high-pressure system prior to all work on the device or its accessories.

**⚠ CAUTION** • Repairs may only be carried out by approved customer service sites or staff qualified in this area who are familiar with all relevant safety instructions.

**ATTENTION** • Pay attention to the safety inspection for mobile devices for industrial use in accordance with the locally applicable regulations • Short-circuits or other damage. Do not clean the device with a hose or high-pressure water jet. • Do not use acetone, undiluted acids or solvents, as they corrode the materials used on the device.

### **Accessories and spare parts**

**⚠ CAUTION** • Only use accessories and spare parts which are approved by the manufacturer. Only original accessories and original spare parts ensure that the appliance will run fault-free and safely. • Only have repairs and installation of spare parts performed by the approved Customer Service in order to prevent any hazards.

### **Transportation**

**⚠ CAUTION** • Switch off the device prior to transport. Secure the device, taking into account its weight. See chapter **Technical Data** in the operating instructions. • Risk of accidents and injuries. Take into account the weight of the device for transportation and storage. See chapter **Technical data** in the operating instructions.

## Technical data

HD 7/20 G Classic HD 8/23 G Classic HD 9/25 G Classic

Internal combustion engine				
Engine type		G210FA	G300FA	G390FA
Maximum power	kW (HP)	4.4 / (5.9)	6.8 / (9.1)	8.5 / (11.4)
Fuel consumption (max.)	l/h	2.24	2.04	4.22
Engine speed	1/min	3500	3500	3500
Fuel tank capacity	l	3.0	5.5	6.5
Fuel type		unleaded vehicle petrol (86 ROZ)	unleaded vehicle petrol (86 ROZ)	unleaded vehicle petrol (86 ROZ)
E10 Fuel suitability		Yes	Yes	Yes
Oil type		15W40 10W30	15W40 10W30	15W40 10W30
Oil volume	l	0.6	0.95	1.1
High-pressure pump				
Maximum operating pressure	MPa (bar)	25 (250)	28 (280)	30 (300)
Operating pressure	MPa (bar)	20 (200)	23 (230)	25 (250)
Flow rate	l/h (l/min)	700 (11.67)	800 (13.30)	900 (15.00)
Nozzle size		035	038	043
Pump oil type		15W40 10W30	15W40 10W30	15W40 10W30
Pump oil volume	l	0.25	0.39	0.39
Opening temperature thermal valve	°C	60 ± 5	60 ± 5	60 ± 5
Water connection				
Feed pressure (max.)	MPa (bar)	1 (10)	1 (10)	1 (10)
Feed pressure (min.)	MPa (bar)	0.1 (1)	0.1 (1)	0.1 (1)
Input temperature (max.)	°C	60	60	60
Input amount (min.)	l/h (l/min)	900 (15)	1040 (17)	1170 (20)
Minimum water supply hose length	m	7.5	7.5	7.5
Minimum water supply hose diameter	in	3/4	3/4	3/4
Device performance data				
Degree of protection		IPX5	IPX5	IPX5
High-pressure gun recoil force	N	39	48	57
Dimensions and weights				
Weight (without accessories)	kg	40.0	44.2	49.7
Length x width x height	mm	878x538x702	878x538x702	878x538x702
Determined values in acc. with EN 60335-2-79				
High-pressure gun hand-arm vibration value	m/s <sup>2</sup>	18.6	6.2	7.0
Uncertainty K	m/s <sup>2</sup>	1.5	1.5	1.5
Sound pressure level L <sub>pA</sub>	dB(A)	90	93	94
Uncertainty K <sub>pA</sub>	dB(A)	2.5	2.5	2.5
Sound power level L <sub>WA</sub> + K uncertainty <sub>WA</sub>	dB(A)	106	108	110
CO <sub>2</sub> Emissions according to the measurement procedure of EU regulation 2016/1628 Euro V				
Motor	g/kWh	880.45	817.85	817.85

Subject to technical modifications.





**THANK YOU!**  
**MERCI! DANKE! ¡GRACIAS!**



Registrieren Sie Ihr Produkt und profitieren Sie von vielen Vorteilen.

Register your product and benefit from many advantages.

Enregistrez votre produit et bénéficiez de nombreux avantages.

Registre su producto y aproveche de muchas ventajas.

**[www.kaercher.com/welcome](http://www.kaercher.com/welcome)**



Bewerten Sie Ihr Produkt und sagen Sie uns Ihre Meinung.

Rate your product and tell us your opinion.

Évaluer votre produit et dites-nous votre opinion.

Reseñe su producto y díganos su opinión.



**[www.kaercher.com/dealersearch](http://www.kaercher.com/dealersearch)**

**Alfred Kärcher SE & Co. KG**  
Alfred-Kärcher-Str. 28-40  
71364 Winnenden (Germany)  
Tel.: +49 7195 14-0  
Fax: +49 7195 14-2212

