

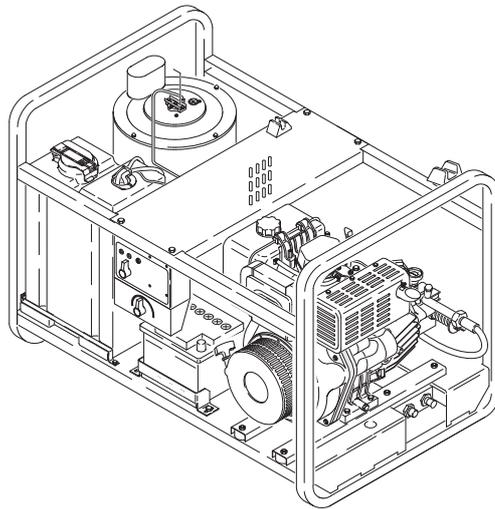
KÄRCHER

makes a difference

HDS 1000 DE

English

4



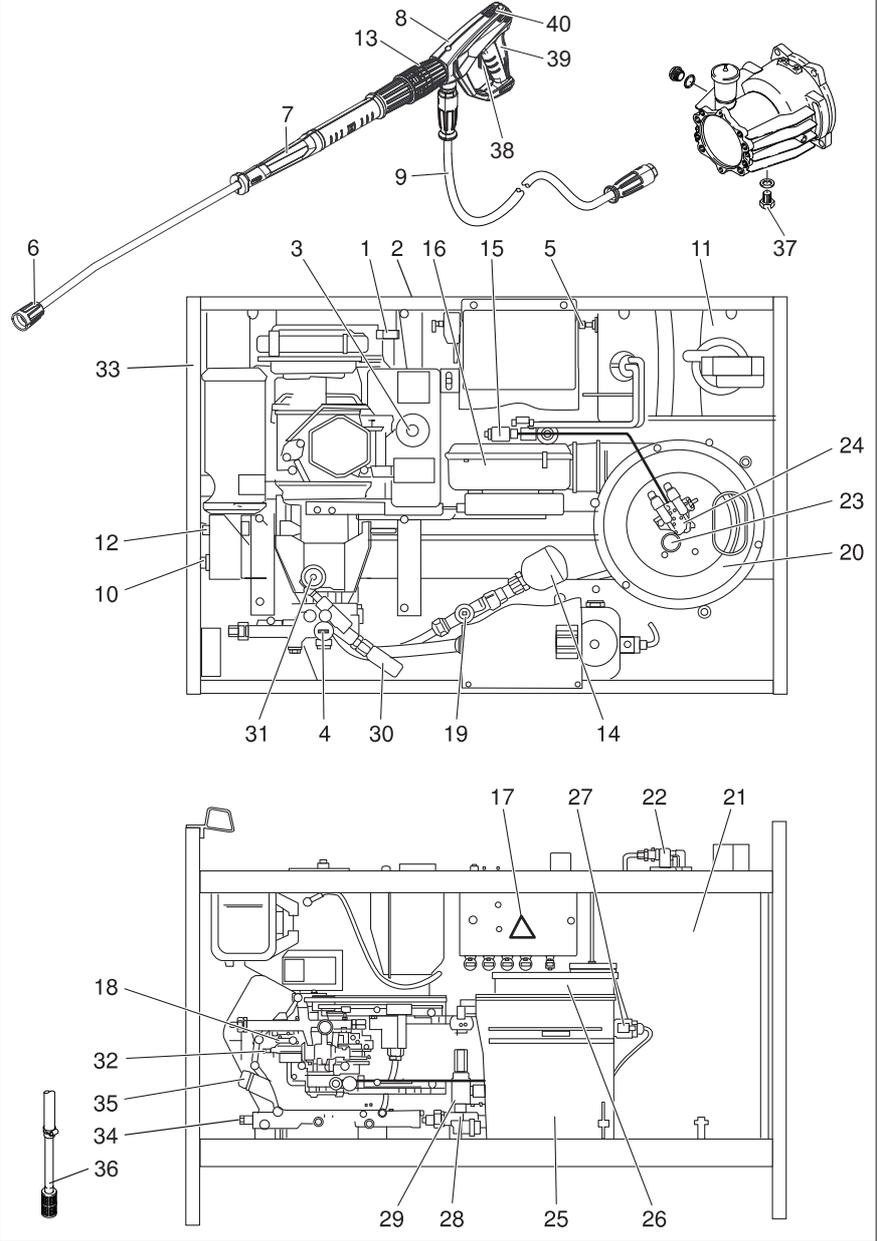
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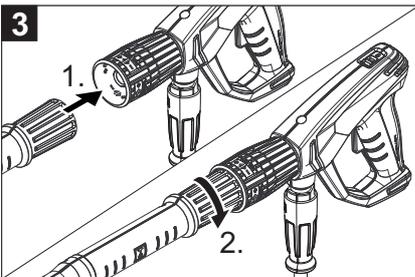
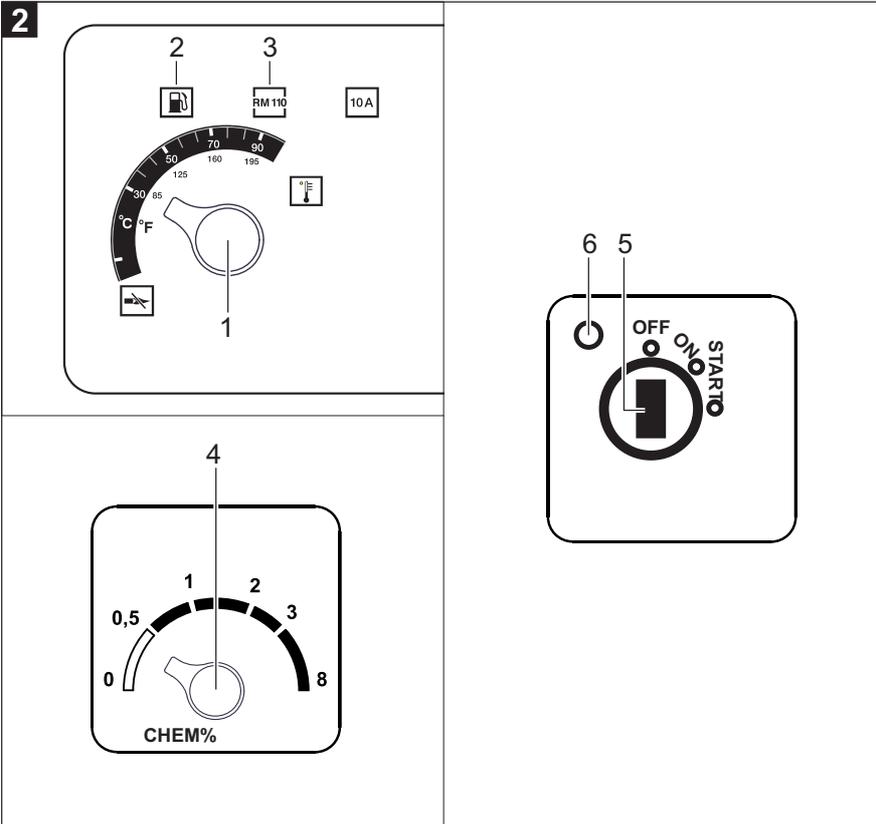


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HDS 1000 DE





  Please read and comply with these original instructions prior to the initial operation of your appliance and store them for later use or subsequent owners.

- Before first start-up it is definitely necessary to read the operating instructions and safety indications Nr. 5.951-949.0!
- In case of transport damage inform vendor immediately.
- Check the contents of the pack before unpacking.

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Environmental protection

	The packaging material can be recycled. Please do not throw the packaging material into household waste; please send it for recycling.
	Old appliances contain valuable materials that can be recycled; these should be sent for recycling. Batteries, oil, and similar substances must not enter the environment. Please dispose of your old appliances using appropriate collection systems.

	Please dispose off the normal or rechargeable batteries in an environment-friendly manner. Batteries and accumulators contain substances that must not enter the environment. Please dispose them off using appropriate collection systems.
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Please do not release engine oil, fuel oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner.

Notes about the ingredients (REACH)

You will find current information about the ingredients at:

www.kaercher.com/REACH

Danger or hazard levels

⚠ DANGER
Pointer to immediate danger, which leads to severe injuries or death.

⚠ WARNING
Pointer to a possibly dangerous situation, which can lead to severe injuries or death.

⚠ CAUTION
Pointer to a possibly dangerous situation, which can lead to minor injuries.

ATTENTION
Pointer to a possibly dangerous situation, which can lead to property damage.

Device elements

Figure 1

- 1 Device for manual start
- 2 Electric starter system
- 3 Fuel tank
- 4 Manometer
- 5 Battery
- 6 High pressure nozzle
- 7 Spray lance EASY!Lock
- 8 Trigger gun EASY!Force
- 9 High pressure hose EASY!Lock
- 10 High-pressure connection EASY!Lock
- 11 Fuel tank
- 12 Connection for water supply with filter
- 13 Pressure/ quantity regulation
- 14 Pressure tank
- 15 Fuel pump with fuel filter
- 16 Burner blower
- 17 Electronics system
- 18 Oil sight glass
- 19 Safety valve
- 20 Burner cover
- 21 Continuous heater
- 22 Ignition plug
- 23 Burner looking glass
- 24 Nozzle holder
- 25 Float tank
- 26 Softener container
- 27 Solenoid valve
- 28 Water shortage safeguard
- 29 Sieve in the water shortage safeguard
- 30 Pressure switch
- 31 Oil filling container
- 32 High-pressure pump
- 33 Nameplate
- 34 Oil drain screw (engine)
- 35 Oil dip (engine)
- 36 Detergent suction hose with filter
- 37 Oil drain screw (pump)
- 38 Safety lever
- 39 Trigger
- 40 Safety latch of the hand spray gun

Operating field

Figure 2

- 1 Power switch
- 2 Fuel indicator lamp
- 3 Liquid softner indicator lamp
- 4 Dosage valve for detergent
- 5 Key switch (electric starter system)
- 6 Indicator lamp "Ignition ON"

Symbols on the machine



High-pressure jets can be dangerous if improperly used. The jet may not be directed at persons, animals, live electrical equipment or at the appliance itself.



Risk of poisoning! Do not inhale exhaust fumes.



Risk of burns on account of hot surfaces!

Proper use

Note: Applicable only for Germany: The appliance is meant only for mobile (non-stationary) operations.

- The appliance is used especially at locations where there is no electrical connection and it is necessary to work with hot water.
- Cleaning of: Machines, Vehicles, Structures, Tools, Facades, Terraces, Gardening tools, etc.

⚠ DANGER

Risk of injury! Follow the respective safety regulations when operating at gas stations or other dangerous areas.

Please do not let mineral oil contaminated waste water reach soil, water or the sewage system. Perform engine cleaning and bottom cleaning therefore only on specified places with an oil trap.

Quality requirements for water:**ATTENTION**

Only clean water may be used as high pressure medium. Impurities will lead to increased wear and tear or formation of deposits in the appliance and accessories. If recycled water is used, the following limit values must not be exceeded.

pH value	6,5...9,5
electrical conductivity *	Conductivity fresh water +1200 µS/cm
settleable solids **	< 0,5 mg/l
total suspended solids ***	< 50 mg/l
Hydrocarbons	< 20 mg/l
Chloride	< 300 mg/l
Sulphate	< 240 mg/l
Calcium	< 200 mg/l
Total hardness	< 28 °dH < 50 °TH < 500 ppm (mg CaCO ₃ /l)
Iron	< 0,5 mg/l
Manganese	< 0,05 mg/l
Copper	< 2 mg/l
Active chloride	< 0,3 mg/l
free of bad odours	
* Maximum total 2000 µS/cm	
** Test volume 1 l, settling time 30 min	
*** no abrasive substances	

Safety instructions**⚠ DANGER**

- Do not use high pressure cleaners when there has been an oil spill; move the appliance to another spot and avoid any sort of spark formation.
- Do not store, spill or use fuel in the vicinity of open flames or appliances such as ovens, boilers, water heaters, etc. that have an ignition flame or can generate sparks.
- Keep even mildly inflammable objects and materials away from the silencer (at least 2 m).

- Do not start the engine without the silencer; check, clean and replace, if required, the silencer at regular intervals.
- Do not use the engine in forest, bushes or grassy areas without fitting a spark receiver at the exhaust.
- Except for setting jobs, do not run the engine when the air filter is removed or there is no cover over the suction support.
- Do not make any adjustments to the regulator springs, regulator bars or other parts that can bring forth an increase in the engine speed.
- Risk of burns! Do not touch hot silencers, cylinders or radiator ribs.
- Do not put hands or feet close to moving or rotating parts.
- Risk of poisoning! The appliance should not be operated in closed rooms.

General notes on safety

- Please follow the national rules and regulations for fluid spray jets of the respective country.
- Please follow the national rules and regulations for accident prevention of the respective country. Fluid spray jets must be tested regularly and the results of these tests must be documented in writing.
- The heating appliance of the machine is an ignition plant. All national laws and regulations about heating systems must also be followed.
- The appliance/accessories must not be modified.

High pressure hose**⚠ DANGER**

- Risk of injury!
- Only use original high-pressure hoses.
 - The high-pressure hose and the injection system must be suitable for the maximum operating pressure given in the Technical Data.
 - Avoid contact with chemicals.

- Check the high-pressure hose daily. Do not use hoses with kinks. Stop using the high-pressure hose if the external wire layer is visible.
- Do not use the high-pressure hose anymore if the winding is damaged.
- Lay the high-pressure hoses in such a way that no vehicle can drive over it.
- Do not use high-pressure hoses that have been driven over, kinked, pressed or bent even if there is no externally visible damage.
- Store the high-pressure hoses in such a way that they are not subject to any mechanical load.

Safety Devices

Safety devices serve for the protection of the user and must not be put out of operation or bypassed with respect to their function.

Water shortage safeguard

The safety mechanism against lack of water prevents the heater from over-heating when there is no water. The burner operates only when there is adequate water supply.

Overflow valve

- If the hand spray gun is closed, the overflow valve opens and the high pressure pump diverts the water back to the pump suction side. Thus the permissible working pressure is not exceeded.
- The overflow valve is set by the manufacturer and sealed. Setting only by customer service.

Safety valve

- The safety valve opens when the overflow valve is defective.
- The safety valve is set by the manufacturer and sealed. Setting only by customer service.

Pressure switch

The pressure switch switches off the burner when the working pressure falls below the minimum value and switches it on again when it is exceeded.

Safety catch

The safety catch on the trigger gun prevents the appliance from being switched on unintentionally.

Start up

⚠ **WARNING**

Risk of injury! Appliance, accessories, supply lines and connections must be in fault-free condition. If they are not in a perfect state then the appliance must not be used.

Check oil level of the high pressure pump

ATTENTION

Risk of damage! In case of lacteous oil inform Kärcher customer service immediately.

- ➔ Check oil level of the high pressure pump at the oil sight glass. Do not operate the appliance if the oil level has fallen below "MIN".
- ➔ Add oil if required (see technical specifications).

Motor

Follow the instructions given in the section "Safety Notes"!

- ➔ Read the operating instructions of the engine manufacturer before start-up and follow the safety instructions carefully.
- ➔ Check air filter.
- ➔ Check oil level of the engine. Do not operate the appliance if the oil level has fallen below "MIN".
- ➔ If required, top up oil carefully.
- ➔ Fill fuel tank with diesel.

Refill fuel

⚠ DANGER

Danger of explosion! Only refill diesel oil or light fuel oil. Inappropriate fuels, e.g. petrol, must not be used.

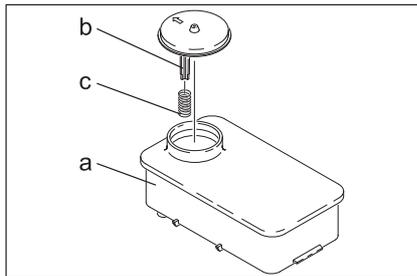
ATTENTION

Risk of damage to the fuel pump on account of dry running. Fill up the fuel tank even during cold water operations to such a level that the indicator lamp for fuel goes off.

- ➔ Refill fuel.
- ➔ Close tank lock.
- ➔ Wipe off spilled fuel.

Refill liquid softener

Note: A sample bundle of liquid softener is included in the delivery.



- ➔ Remove spring (c) from the lid support (b) of the softener tank (a).
- ➔ Fill the tank with Kaercher softener liquid RM 110 (Order no. 2.780-001).
 - The liquid softener prevents the calcification of the heating spiral while operating with calciferous tap water. It is dosed into the supply drop by drop.
 - The metering is set to medium water rigidity by the manufacturer.

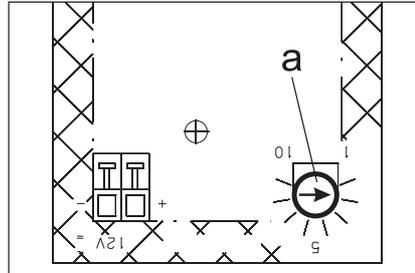
Adjust dosing of liquid softener

⚠ DANGER

Dangerous electrical voltage! Setting may only be done by an electrician.

- ➔ Determining the hardness of tap water:
 - through the public water supply works,
 - using a hardness tester (order no. 6.768-004)

➔ Open the electrical box.



➔ Set the speed potentiometer (a) according to the water hardness. You can refer to the correct setting in the table.

Example:

For a water hardness of 15 °dH, set 7 on the value scale of the speed potentiometer.

Water hardness (°dH)	Scale on the speed potentiometer
5	10
10	8
15	7
20	6,5
25	6
30	5,5

Battery

Safety notes regarding the battery

Please observe the following warning notes when handling batteries:

	Observe the notes on the battery and in the operating instructions!
	Wear an eye shield!
	Keep away children from acid and batteries!
	Risk of explosion!

	<i>Fire, sparks, open light, and smoking not allowed!</i>
	<i>Danger of causticization!</i>
	<i>First aid!</i>
	<i>Warning note!</i>
	<i>Disposal!</i>
 Pb	<i>Do not throw the battery in the dustbin!</i>

⚠ DANGER

Risk of explosion! Do not put tools or similar on the battery, i.e. on the terminal poles and cell connectors.

⚠ DANGER

Risk of injury! Ensure that wounds never come into contact with lead. Always clean your hands after having worked with batteries.

Charging battery

⚠ DANGER

Risk of injury! Comply with safety regulations on the handling of batteries. Observe the directions provided by the manufacturer of the charger.

- ➔ Disconnect battery.
- ➔ Connect positive terminal cable from the charger to the positive pole connection on the battery.
- ➔ Connect negative terminal cable from the charger to the negative pole connection on the battery.

- ➔ Plug in mains connector and switch on charger.
- ➔ Charge battery using lowest possible level of charging current.

Check fluid level in the battery and adjust if required

ATTENTION

Regularly check the fluid level in acid-filled batteries.

- ➔ Unscrew all cell caps.
- ➔ Where fluid level is too low, top up cells to the mark provided with distilled water.
- ➔ Charge battery.
- ➔ Screw in cell caps.

Install the hand-spray gun, the jet pipe, the nozzle and the high pressure hose

Note: The EASY!Lock system joins components with a quick-fasten thread solidly and securely with just one turn.

Figure 3

- ➔ Join the spray lance with the trigger gun and tighten until hand-tight (EASY!Lock).
- ➔ Insert the high pressure nozzle onto the spray lance.
- ➔ Install union nut and hand-tighten it (EASY!Lock).
- ➔ Join the high-pressure hose with trigger gun and high-pressure connection of the appliance and tighten until hand-tight (EASY!Lock).

Water connection

For connection values refer to technical specifications.

- ➔ Connect the supply hose (minimum length 7.5 m, minimum diameter 3/4") to the water connection point of the machine and at the water supply point (for e.g. a tap).

Note: The supply hose is not included.

Suck in water from vessel

- When fitted with the appropriate accessories, this high-pressure cleaner can draw in surface water, e.g. from water butts or ponds.
- Suction height max. 1m.

⚠ DANGER

Risk of personal injury or damage! Never suck in water from a drinking water container. Never suck in liquids which contain solvents like lacquer thinner, petrol, oil or unfiltered water. The sealings within the device are not solvent resistant. The spray mist of solvents is highly inflammable, explosive and poisonous.

- Connect suction hose (minimum diameter 3/4") with filter (accessory) to the water connection point.
- Set dosing value for detergent to "0".

Operation

⚠ DANGER

Danger of explosion! Do not spray flammable liquids.

⚠ DANGER

Risk of injury! Never use the appliance without the spray lance attached. Check and ensure proper fitting of the spray lance prior to each use. The screw connection of the spray lance must be finger-tight.

⚠ DANGER

Risk of injury! Hold the hand spray gun and the spray pipe firmly with both hands.

⚠ DANGER

Risk of injury! The trigger and safety lever may not be locked during the operation.

⚠ DANGER

Risk of injury! Contact Customer Service if the safety lever is damaged.

ATTENTION

Risk of damage to the fuel pump on account of dry running. Fill up the fuel tank even during cold water operations to such a level that the indicator lamp for fuel goes off.

Opening/closing the trigger gun

- To open the trigger gun: Actuate the safety lever and trigger.
- To close the hand spray gun: Release the safety lever and trigger.

Replace the nozzle

⚠ DANGER

Risk of injury! Switch the appliance off prior to replacing nozzle and activate hand spray gun until device is pressureless.

- Secure the trigger gun. To do so, push the safety catch towards the front.
- Replacing the nozzle.

Cleaning

- Set pressure/temperature and detergent concentration according to the surface to be cleaned.

Note: To prevent damage due to too much pressure, always position high pressure ray first from a greater distance towards object to be cleaned.

Working with the high pressure nozzle

The spray angle is essential for the effectiveness of the high pressure ray. Normally work is performed with a 25° flat ray nozzle (included).

- Recommended nozzles are deliverable as accessories

- For strong contaminations
0° full ray - nozzle
- For sensitive surfaces and light contaminations
40° flat ray - nozzle
- For thick layered, persistent contaminations

Dirt grinder

- Nozzle with adjustable spray angle, for adaption to different cleaning tasks
Angle-Vario-Nozzle

Recommended cleaning method

- Loosen the dirt:
Spray detergent economically and let it work for 1...5 minutes but do not let it dry up.
- Remove the dirt:
Spray off loosened dirt with the high pressure jet.

Turning on the Appliance

- Open the water supply.
- Set the appliance switch to operation with cold/ hot water.
- Start the engine according to the operating instructions of the engine manufacturer.
- Release the trigger gun. To do so, push the safety catch towards the back.
- Open the hand spray gun.

Operating with cold water

- Set the appliance switch to "Burner off".

Operating with hot water

⚠ **DANGER**

Scalding danger!

- Set the appliance switch to the desired working temperature (max. 98 °C). The burner is switched on.

Set working pressure and flow rate

- Set (+/-) the working pressure and quantity by turning the pressure/ quantity regulation mechanism at the hand spray gun.

⚠ **DANGER**

Risk of injury! When adjusting the pressure/ quantity regulation, make sure that the screw connection of the spray lance does not become loose.

Operation with detergent

ATTENTION

Unsuitable detergents can cause damage to the appliance and to the object to be cleaned.

- For considerate treatment of the environment use detergent economically.

- Observe the dosage and other instructions provided with these detergents.
- Use only those detergents approved by the manufacturer of the appliance.
- Kärcher detergents ensure smooth functioning. Please consult us or ask for our catalogue or our detergent information sheets.
- Suspend end of suction hose in a container filled with detergent.
- Set dosing value for detergent to the desired concentration.

Interrupting operation

- Close the hand spray gun.
- Secure the trigger gun. To do so, push the safety catch towards the front.

Note: If the trigger gun is closed, the motor continues to run at idling speed. The water thus circulates within the pump and heats up. When the cylinder head at the pump has reached the maximum permissible temperature (80 °C), the safety thermostat at the cylinder head switches off the motor. The device can be restarted after cooling down to below 50 °C.

Cooling can be hastened while using compressed water from the water supply pipes:

- Open the trigger gun for approx. 2 - 3 minutes so that the circulating water cools down the cylinder head.
- Restart the engine.

After operation with detergent

- Set dosing value for detergent to "0".
- Open the hand spray gun and rinse the appliance for at least 1 minute.

Turn off the appliance

⚠ **DANGER**

Danger of scalding from hot water! After operation with hot water, the device must be operated with openend handgun with cold water for at least two minutes.

After operating the water using saline water (sea water), open the hand spray gun and rinse the appliance for at least 2 - 3 minutes using tap water.

ATTENTION

Risk of damage! Never stop the motor under full load when the trigger gun is opened.

- Set the appliance switch to "Burner off".
- Close the hand spray gun.
Motor regulates to reach dry run speed.
- Set the appliance switch at the engine to OFF and close the fuel supply valve.
- Shut off water supply.
- Activate trigger gun until device is pressure-less.
- Secure the hand spray gun using the safety catch so that it doesn't open accidentally.
- Remove the water inlet hose from the appliance.

Storage

⚠ CAUTION

Risk of personal injury or damage! Consider the weight of the appliance when storing it.

Transport

ATTENTION

Protect the trigger from damage during transport.

⚠ CAUTION

Risk of personal injury or damage! Mind the weight of the appliance during transport.

- When transporting in vehicles, secure the appliance according to the guidelines from slipping and tipping over.

Care and maintenance

You can sign with your dealer a contract for regular safety inspection or even sign a maintenance contract. Please take advice on this matter.

⚠ DANGER

Risk of injury if the machine is left running in an unattended state. Remove the spark plug or disconnect the battery before working on the appliance.

Risk of burns! Do not touch hot silencers, cylinders or radiator ribs.

Maintenance intervals

Daily

- Check the high pressure hose for damages (risk of bursting). Please arrange for the immediate exchange of a damaged high-pressure hose.

Weekly

- Check oil level of the high pressure pump.

ATTENTION

Risk of damage! In case of lacteous oil inform Kärcher customer service immediately.

Monthly

- Clean the sieve in the water connection.
- Clean sieve in the water shortage safe guard.
- Clean filter at the detergent suck hose.

Every 500 operating hours, at least annually

- Decalcify appliance.
- Have the maintenance of the device performed by the customer service.

Maintenance Works

High-pressure pump

Oil change:

- Ready a catch bin for appr. 1 Liter oil.
- Turn out the oil drain screw.
- Drain the oil in a collection basin.

Dispose of old oil ecologically or turn it in at a collection point.

- Screw in the oil drain screw.
- Slowly fill in new oil until the "MAX" marking on the oil container.

Note: Air pockets must be able to leak out.

For oil type refer to technical specifications.

Motor

Carry out maintenance tasks to the engine according to the specifications provided in the operating instructions of the engine manufacturer.

Decalcify appliance

The flow resistance is higher if there are deposits in the pipes; this increases the load on the motor.

⚠ DANGER

Risk of explosion due to combustible gases! Smoking strictly prohibited during decalcification. Ensure proper ventilation.

⚠ DANGER

Risk of burns injury on account of acid! Wear protective glasses and protective gloves.

■ Procedure:

According to statutory requirements, only tested and approved boiler decrusting agents may be used.

- RM 100 (Order No. 6.287-008) dissolves chalk and simple compounds of chalk and detergents residues.
- RM 101 (Order No. 6.287-013) dissolves the deposits that cannot be dissolved using RM 100.
- Fill a 20 litre container with 15 l water.
- Add one litre of boiler decrusting agent.
- Connect the water hose directly to the pump and hang in the other free end into the container.
- Insert the connected spray pipe without nozzle into the container.
- Start the engine according to the operating instructions of the engine manufacturer.
- Open the hand-spray gun and do not close it during the decalcification process.
- Set the appliance switch to a working temperature of 40 °C.
- Let the appliance run till the working temperature is reached.
- Switch off the appliance and let it stand for 20 minutes. The hand-spray gun must remain opened.
- Then pump out the machine until empty.

Note: As an anti-corrosion measure and for neutralising the acid residue, we recommend that you finally pump an alkaline solution through the machine (for e.g. RM 81) via the detergent tank.

Frost protection

ATTENTION

Risk of damage! Freezing water in the appliance can destroy parts of the appliance.

- Store the appliance in a heated room during winter or empty it. During longer breaks in operation, it is advisable to pump in anti-frost agents into the appliance.
- If it is not possible to store frost free, shut down device.
 - Drain water:
 - Screw off water supply hose and high pressure hose.
 - Screw off supply hose at boiler bottom and drain heating spiral empty.
 - Operate device for max. 1 minute until the pump and conduits are empty.
 - Flush appliance with anti-freeze agent:
 - Note:** Observe handling instructions of the anti-freeze agent manufacturer.
 - Fill anti-freeze agent of the trade into swimmer container.
 - Switch on appliance (without heater) till the appliance has been completely rinsed.

A certain corrosion protection is achieved with this as well.

Troubleshooting

⚠ DANGER

Risk of injury if the machine is left running in an unattended state. Remove the spark plug or disconnect the battery before working on the appliance.

Risk of burns! Do not touch hot silencers, cylinders or radiator ribs.

Fuel indicator lamp glows

- Fuel tank empty
- Refill.

Indicator lamp liquid softener glows

- Liquid softener tank is empty, due to technical reasons a remainder stays in the tank.
- Refill.
- Electrodes in the tank are dirty
- Clean the electrodes.

Appliance is not running

Follow operating instructions of the engine manufacturer!

- Fuel tank empty.
- Refill.
- Safety thermostat at the high pressure pump has switched off the appliance after long period of cycle operation.
- Allow the appliance to cool down; then restart it. Refer section "Interrupting operation".

Device is not building up pressure

- Operating speed of the engine is too low
- Check operating speed of the engine (refer to technical data).
- Nozzle is blocked/ washed out
- Clean/ replace nozzle.
- Sieve in the water connection is dirty
- Clean sieve.
- Amount of water supply is too low.
- Check water supply level (refer to technical data).
- Pipe inlets to pump are leaky or blocked
- Check all inlet pipes to the pump.
- Air within the system
- Vent pump:
- Set dosing value for detergent to "0".
- Open the water supply.
- Start the engine according to the operating instructions of the engine manufacturer.
- To deaerate the appliance, unscrew the nozzle and allow the appliance to run until the water exits in a bubble-free state.
- Switch off the appliance and fit the nozzle again.

High pressure side is leaky

- Pump leaky
- Note:** 3 drops/minute are allowed.
- With stronger leak, have device checked by customer service.

High pressure pump is vibrating

- Inlet pipes to the pump are leaky.
- Check all inlet pipes to the pump.
- Air within the system

Vent pump:

- Set dosing value for detergent to "0".
- Open the water supply.
- Start the engine according to the operating instructions of the engine manufacturer.
- To deaerate the appliance, unscrew the nozzle and allow the appliance to run until the water exits in a bubble-free state.
- Switch off the appliance and fit the nozzle again.

Device is not sucking in detergent

- Detergent suction hose with filter is leaky or blocked
- Check/ clean detergent suction hose with filter.
- Backflow valve in the connection of the detergent suction hose is jammed
- Clean/ replace backflow valve in the connection of the detergent suction hose.
- Detergent dosing valve is closed or leaky/ blocked
- Open or check/clean detergent dosing valve.

Overflow valve keeps switching on/off when the hand-spray gun is opened

- Nozzle is blocked
- Clean the nozzle.
- Appliance is decalcified
- Decalcify appliance.
- Sieve in the water shortage safe guard is dirty
- Clean sieve.
- Overflow valve is defective
- Replace overflow valve (Customer Service).

Burner does not start

- Fuel tank empty
- Refill.
- Water shortage
- Check water supply, check connections.
- Clean sieve in the water shortage safe guard.
- Fuel filter dirty
- Change fuel filter.
- No ignition spark
- If device is in use and no ignition spark can be seen through the viewing glass, have device checked by customer service.

Set temperature is not achieved while using hot water

- Working pressure/flow rate too high
- Reduce working pressure/ flow quantity on the hand spray gun.
- Sooty heating spiral
- Have device de-sooted by customer service.

Customer Service

If malfunction can not be fixed, the device must be checked by customer service.

Warranty

The warranty terms published by the relevant sales company are applicable in each country. We will repair potential failures of your appliance within the warranty period free of charge, provided that such failure is caused by faulty material or defects in manufacturing. In the event of a warranty claim please contact your dealer or the nearest authorized Customer Service centre. Please submit the proof of purchase.

Accessories and Spare Parts

Only use original accessories and spare parts, they ensure the safe and trouble-free operation of the device.

For information about accessories and spare parts, please visit www.kaercher.com.

EU Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements of the EU Directives, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified without our prior approval.

Product: High pressure cleaner

Type: 1.811-xxx

Relevant EU Directives

2006/42/EC (+2009/127/EC)

2000/14/EC

2014/30/EU

Applied harmonized standards

EN 55012: 2007 + A1: 2009

EN 60335-1

EN 60335-2-79

Applied conformity evaluation method

2000/14/EC: Appendix V

Sound power level dB(A)

Measured: 105

Guaranteed: 107

5.957-091

The undersigned act on behalf and under the power of attorney of the company management.


H. Jenner
CEO


S. Reiser
Head of Approbation

Authorised Documentation Representative
S. Reiser

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Winnenden, 2016/01/01

Technical specifications

		HDS 1000 DE *GB
Type of protection	--	IPX5
Motor		
Type	--	Yanmar L 100 N, 1 cylinder, 4-stroke
Maximum torque at 3600 rpm	kW (HP)	7,4 (10)
Specific consumption	g/kWh	250
Operating speed	1/min	3200-3400
Fuel tank	l	5,5
Fuel	--	Diesel
Water connection		
Max. feed temperature	°C	30
Min. feed volume	l/h (l/min)	1000 (16,7)
Max. feed pressure	MPa (bar)	0,6 (6)
Inlet hose	Order no.	4.440-207.0
Inlet hose length	m	7,5
Inlet hose diameter (min.)	Inch	3/4
Suck height from open container (20 °C)	m	1
Performance data		
Water flow rate	l/h (l/min)	450-900 (7,5-15)
Operating pressure of water (using standard nozzle)	MPa (bar)	4-20 (40-200)
Size of standard nozzle	--	050
Max. excess operating pressure (safety valve)	MPa (bar)	23 (230)
Max. operating temperature of hot water	°C	98
Detergent suck in	l/h (l/min)	0-40 (0-0,7)
Burner performance	kW	59
Maximum consumption of heating oil	kg/h	5,6
Max. recoil force of trigger gun	N	51
Values determined as per EN 60335-2-79		
Noise emission		
Sound pressure level L_{pA}	dB(A)	91
Uncertainty K_{pA}	dB(A)	2
Sound power level L_{WA} + Uncertainty K_{WA}	dB(A)	107
Hand-arm vibration value		
Hand spray gun	m/s ²	<2,5
Spray lance	m/s ²	<2,5
Uncertainty K	m/s ²	1
Fuel		
Fuel	--	Fuel oil EL or Diesel
Oil quantity - pump	l	0,35
Oil type - pipe	Engine oil 15W40	Order no. 6.288-050.0
Dimensions and weights		
Length x width x height	mm	1100 x 750 x 785
Typical operating weight	kg	197,0
Fuel tank	l	34



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