

makes a difference

KARCHER

WWP 45

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العربية

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Geringe Förderleistung

- Den Saugschlauch auf Dichtheit und Löcher untersuchen.
- 2 Die Flachdichtung zwischen Gerät und Saugschlauch prüfen.
- Einen stabileren Saugschlauch verwenden.
- Den Saugfilter komplett untertauchen. Δ
- 5. Den Saugfilter säubern.
- Die Pumpe näher zur Wasserquelle platzieren. Hö-6. henunterschied zwischen Pumpe und Wasseroberfläche verringern.
- 7 Kürzere Schläuche verwenden

Garantie

In jedem Land gelten die von unserer zuständigen Vertriebsgesellschaft herausgegebenen Garantiebedin-

Technische Daten

gungen. Etwaige Störungen an Ihrem Gerät beseitigen wir innerhalb der Garantiefrist kostenlos, sofern ein Material- oder Herstellungsfehler die Ursache sein sollte. Im Garantiefall wenden Sie sich bitte mit Kaufbeleg an Ihren Händler oder die nächste autorisierte Kundendienststelle

(Adresse siehe Rückseite)

rechnische Daten				
		WWP 45		
Pumpe				
Nennweite"		3		
Fördermenge maximal	l/h	45000		
Ansaughöhe (max.)	m	7		
Förderhöhe (max.)	m	25		
Verbrennungsmotor				
Motortyp		Einzylinder		
Bauart		4-takt		
Kühlart		luftgekühlt		
Hubraum	cm ³	196		
Motorleistung	kW/PS	5,1/6,9		
Kraftstoffart		Benzin, min. 88 Oktan		
Inhalt Kraftstofftank	I	3,6		
Einsatzdauer bei vollem Tank	h	2,1		
Motorölmenge	I	0,5		
Ölsorte		10 W-30 15 W-40		
Zündkerzentyp		F5T, F6TJC, F7TJC		
Maße und Gewichte				
Länge	mm	580		
Breite	mm	440		
Höhe	mm	450		
Gewicht ohne Kraftstoff	kg	36		

CO₂-Emissionen gemäß dem Messverfahren der EU-Verordnung 2016/1628 Euro V

Motor

Technische Änderungen vorbehalten

EU-Konformitätserklärung

Hiermit erklären wir, dass die nachfolgend bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart so-wie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EU-Richtlinien entspricht. Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit. Produkt: Schmutzwasserpumpe

Typ: 1.812-xxx Einschlägige EU-Richtlinien

2006/42/EG (+2009/127/EG) 2014/30/EU 2011/65/EU

Angewandte harmonisierte Normen EN 809: 1998: A1: 2009 + AC: 2010 EN 61000-6-3: 2007+A1: 2011+AC: 2010 EN 61000-6-1: 2007

Angewandtes Konformitätsbewertungsverfahren 2000/14/EG: Anhang V Die Unterzeichnenden handeln im Auftrag und mit Vollmacht des Vorstands.

no H. Jenner

S. Reiser

Chairman of the Board of Management

Dokumentationsbevollmächtigter: S. Reiser Alfred Kärcher SE & Co. KG Alfred-Kärcher-Str. 28 - 40 71364 Winnenden (Germany)

Tel.: +49 7195 14-0 Fax: +49 7195 14-2212 Winnenden, 2018/10/01

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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

closed spaces and is only approved for outdoor operation.

This waste water pump is not approved for use in the food industry.

Only fresh water may be delivered using the pump. Using the pump for inflammable substances such as petrol, diesel or heating oil is prohibited due to the danger of fire and explosion.

Delivering salt water, acidic chemicals and other corrosive substances can damage the pump.

As delivered, this waste water pump is intended for use at heights of up to 1500 m above sea level. It can be adjusted by an authorised Customer Service department for use at higher elevations.

If a device that has been adjusted for use at higher elevations is used below this height then this can result in destruction of the motor through overheating

Environmental protection

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

Electrical and electronic appliances contain valu-X able, 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 togeth-

er with the household rubbish.

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Notes on the content materials (REACH) Current information on content materials can be found at: 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

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.

Safety instructions

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.

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

g/kWh

6

Director Regulatory Affairs & Certification

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This waste water pump must not be operated in en-

ATTENTION

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

Safety instructions

▲ DANGER

- Danger of injury.
- 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.
- Children must be supervised to prevent them from playing with the device.
- Children and minors must not use the device.
- Danger of explosion.
- Never operate the device in potentially explosive environments.
- Observe the corresponding safety instructions when operating the device in hazard zones (e.g. a petrol station).
- Only fill the fuel specified in the operating instructions.
- Only refuel with the engine switched off.
- Do not refuel in confined spaces.
- Smoking and open flames are prohibited.
- Ensure that no fuel gets on hot surfaces during refuelling.
- Close the fuel tank cap after refuelling.
- Do not operate the device if fuel has been spilt. Move the device to another location and avoid generating sparks.
- Store fuel only in approved containers.
- Do not store fuel in the vicinity of open flames or devices having an ignition flame or that generate sparks (e.g. oven, heating boiler or water heater).
- Do not spray start spray into the air filter.
- Danger of fire.
- Maintain a minimum distance of 2 m between inflammable objects and the muffler.

- Do not operate the device in forests, bushy or grassy areas unless the exhaust pipe has been equipped with a spark catcher.
- Keep grass and other soiling substances away from the cooling fins.
- Do not operate the device if the fuel system is damaged or leaking. Check the fuel system regularly.
- Allow the device to cool down before storing in closed rooms.

Danger of electric shock

 Do not touch the spark plug or ignition lead when the device is in operation.

△ WARNING

- Health risk
- Exhaust gases are toxic. Never breathe in the exhaust gases. Never operate the device in confined spaces. Ensure sufficient ventilation and extraction of the exhaust gases.
- Make sure that no exhaust. gases are emitted close to air vents.
- Avoid repeated or prolonged contact with fuel or engine oil and do not inhale the fuel vapours.

△ CAUTION

- Danger of burns
- Do not touch any hot parts such as the muffler, cylinder or cooling fins.
- Danger of hearing damage
- Do not operate the device without a muffler. Check the muffler regularly and have a damaged muffler replaced.

ATTENTION

- Risk of damage
- Use only spare parts from the original manufacturer.
- Old fuel can lead to deposits in the carburettor and impair the engine performance. Use only new fuel.
- Do not adjust any control springs or linkages that might

increase the speed of the engine.

- Do not operate the device with the air filter removed.
- Do not pull the starter cord while the device is running.
- Ensure adequate ventilation so that the device does not overheat.
- Drain all water from the pump if there is a danger of frost.

Symbols on the device



WARNING Δ

Danger of explosion, risk of fire. Petrol can cause fires or explosions if handled incorrect-

Read these operating instructions before using the device.

Do not operate the device in confined spaces or partially enclosed areas

Shut the motor down prior to refuelling. Fill the tank only up to 16 mm below the upper edge of the tank to allow room for expansion of the fuel.

∧CAUTION Hot surface

The exhaust pipe of the device becomes very hot during operation and can cause burns Avoid touching the exhaust pipe



Risk of eye injuries and hearing dam-

Wear safety goggles and hearing pro-tection when operating the device.

Device description

See cover page for pictures Illustration A

- (1) Power switch
- (2) Starter cord
- 3 Air filter
- (4) Filling hole
- (5) Fuel tank cap
- 6 Fuel tank
- (7) Oil dipstick
- (8) Oil drain plug
- (9) Output
- (10) Suction hose port
- (11) Water drain screw
- (12) Type plate
- (13) Fuel cock
- (14) Choke lever
- (15) Accelerator lever

Symbols on the device



Clean the air filter every 50 operating hours or every 10 operating hours in the case of dusty environments(see 'Care and maintenance/Cleaning the air filter").





Choke lever

Accelerator lever

nitial start-up

Fill with oil

- Position the device on a level surface.
- 2. Unscrew the oil dipstick.
- 3. Fill with engine oil. Note: The engine oil is not included in the scope of
- delivery. The filling quantity and oil type are speci-fied in the section "Technical data".
- Wipe off the oil dipstick
- Insert the oil dipstick as far as it will go, but do not screw in.
- Pull out the oil dipstick. The oil level must lie in the 6 marked section of the oil dipstick.
- Top up the engine oil if the level is too low.
- Screw in and tighten the oil dipstick. 8.

Initial startup

- Check the oil level
- Position the device on a level surface.
- 2 Unscrew the oil dipstick. Wipe off the oil dipstick 3.

1

7.

- Insert the oil dipstick as far as it will go, but do not 4.
- screw in. 5. Pull out the oil dipstick. The oil level must lie in the
- marked section of the oil dipstick. Top up the engine oil if the level is too low. 6
 - Screw in and tighten the oil dipstick.

Refuelling

- Unscrew the fuel tank cap.
- Fill fuel up a maximum of the lower edge of the filling 2. nozzle
- 3. Fit the fuel tank cap and screw tight.

Positioning the pump

The delivery performance of the pump is heavily dependent on the operating conditions. Adhering to the following rules will ensure optimum performance.

- Keep the height difference between the water sur face and the pump as small as possible.
- Position the pump so that the suction hose is a short as possible.
- A long pressure hose is better than a long suction hose
- Do not unnecessarily long hoses.

Connecting the hoses

- Push the hose clip onto the suction hose. 1. Illustration B
- (1) Suction hose (not in scope of delivery)
- (2) Hose clip
- (3) Hose nipple
- (4) Union nut
- (5) Flat seal
- 2. Slide the union nut onto the hose nipple
- 3 Push the suction hose onto the hose nipple.
- Position and tighten the hose clip. 4 Fit a flat seal between the suction nozzle and hose 5. nipple

Note: A reinforced hose suitable for vacuum applications must be used for the suction hose

- Connect the suction hose to the suction nozzle and tighten the union nut.
- 7. Fit the suction filter to the other end of the suction hose Illustration C
- (1) Suction hose (not in scope of delivery)
- 2 Hose clip
- (3) Suction filter

the union nut

8

- 8. Fit a hose nipple, union nut and hose clip to the pressure hose (not included in the scope of deliverv).
- 9 Fit a flat seal between the hose nipple and outlet. 10. Connect the pressure hose to the outlet and tighten

Operation

(1) Carburettor

2 Drain screw

Additionally

Unscrew the drain screw.

Cleaning the settling cup").

ute the oil in the engine.

ing the oil").

is discernible.

DANGER

by moving parts.

CAUTION

Danger of burns.

any maintenance work.

Collect the fuel in the container.

Screw in and tighten the drain screw.

Unscrew the spark plug.
5...10 cm³ Add engine oil to the cylinder.

Danger of injury from electric shock.

See "Startup" for a description.

Check the oil level.

Change the oil. *

tion environment

Change the oil. **

of delivery). **

Illustration E

3 Air filter insert

ATTENTION

Risk of damage

insert is absent.

ing the air filter"

(1) Cover

(2) Lap

2

3

2

Clean the settling cup. **

Check and clean the spark plug. **

Check and adjust the valve play.

Clean the fuel tank and fuel filter.

Check/adjust the idling mixture speed. Check/adjust the valve play.

Replace the air filter insert.

Replace the spark plug.

Check the pump impeller.

Check the pump inlet valve.

Clean the air filter. *

Check the air filter. **

Empty the settling cup (see "Care and Maintenance/

Storage duration longer than 12 months

Slowly pull the starter cord several times to distrib-

Screw in the spark plug. Change the oil (see "Care and Maintenance/Chang-

Pull the starter cord slowly until a strong resistance

Care and service

The device can start unintentionally. You can be injured

Remove the spark plug connector before performing

Hot device components cause burns if touched.

** See "Maintenance work" for a description.

Allow the device to cool down before working on it.

Maintenance intervals

Each time before use

Check the device for correct condition and opera-

tional safety. Do not start up a damaged device.

Once after 1 month or 20 operating hours

Every 3 months or 50 operating hours

Every 6 months or 100 operating hours

Clean the spark catcher (not included in the scope

Annually by the authorised Customer Service

department

Check the gap between the casing and impeller.

Every 2 years by the authorised Customer Service

department

Maintenance work

Check the air filter

Check the air filter insert for soiling. Clean the air fil-

ter if necessary or replace if damaged (see "Clean-

Cleaning the air filter

Penetrating dust can destroy the engine if the air filter

Open the air filter (see "Checking the air filter").

Do not operate the device without an air filter insert.

Check the fuel line and replace if necessary.

Clean the engine combustion chamber.

Lift the strap and remove the cover.

Fit the cover and latch into place.

Remove the air filter insert.

Perform cleaning more frequently in a dusty applica-

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Venting the pump

ATTENTION Risk of damage

The seals will be damaged if the pump runs dry. Vent the pump before starting. If the pump is accidentally

run dry then stop the engine immediately and allow the pump to cool down before starting the venting procedure. Unscrew the cap from the filler opening. 1.

- 2. Fill the pump completely with water.
- 3. Screw the cap back into the filler opening and tighten.

Starting the device

- Vent air from the pump. Open the fuel cock. 1
- 2.
- Push the choke lever to the left. 4. Push the accelerator lever to approximately 1/3 of the total range.
- Set the power switch to "I".
- Pull the starter cord slowly until a strong resistance is discernible then pull strongly. 6. 7. Slowly return the starter cord. ATTENTION

Risk of damage

- A rapidly returning starter cord damages the device.
- Slowly return the starter cord Push the choke lever to the right once the engine 8.
- has started. Push the accelerator lever to the left until reaching 9 the desired speed. The flow rate of the pump de-
- pends on the engine speed. 10. Check the function of the pump. Dry running damages the pump. Switch off the engine and repeat vent-
- ing of the pump if the pump does not deliver water.

Switching the device off in an emergency

1. Set the power switch to "0"

Switching off the device

- Push the accelerator lever all the way to the right. 1.
- Set the power switch to "0".
- 3. Close the fuel cock.

2

1.

Draining the water

- Unscrew the water drain screw
- 2. Allow the water to drain from the pump.
- Unscrew the cap from the filler opening.
- 4 Flush the pump with fresh water 5
- Allow the fresh water to drain away.
- Screw the cap into the filler opening and tighten. Screw in and tighten the water drain screw. 6

Transport

- Set the power switch to "0" before transport. Allow the engine to cool down for at least
- 15 minutes before loading
- Keep the device horizontal during transport to prevent fuel from spilling out.
- When transporting in vehicles, secure the device against rolling away, slipping and tipping according
- to the respectively applicable guidelines. Be aware of the weight of the device during transport.

Storage

- **△** CAUTION
- Failure to observe the weight

recently in operation.

small amount of water.

Top up the fuel tank.

Close the fuel cock.

Illustration D

to drain out.

Rub all accessible surfaces dry.

Lightly oil rust-prone surfaces

Add petrol stabiliser to the fuel tank.

Place a container under the carburettor.

English

Risk of injury and damage Be aware of the weight of the device during storage. ATTENTION

Cleaning the device

1. Allow the device to cool down for a half-hour if it was

Flush the pump with clear water. Manually wash the exterior of the device with a

Screw in and tighten the water drain screw.

Spray the control elements with silicone spray.

Storage duration of 1...2 months

Storage duration of 2...12 months

Unscrew the water drain screw and allow the water

Risk of damage

3.

5.

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Additionally

Do not place any heavy objects on the device. Store the device in a drv and dust-free place.

The device must be cleaned before storage.

- 3. Wash the air filter insert in warm water and household cleaner then rinse with clear water. Note: Dispose of the oil contaminated washing solution in an environmentally friendly manner.
- Allow the air filter insert to dry 5. Saturate the air filter insert in clean engine oil and press out the excess oil.
- Fit the air filter insert back into place. 6.
- Fit the cover. 7 Close the latches. 8.

Changing oil

Perform the oil change on a warm engine. Unscrew the oil dipstick. 1.

Illustration F

- (1) Oil dipstick
- 2 Oil drain plug
- Unscrew the oil drain screw with seal and catch the 2. escaping oil.
- Screw in and tighten the oil drain screw with seal.
- Position the device on a level surface. Measure the correct quantity of engine oil (for oil
- 5. type see "Technical data") and fill through the oil dipstick hole
- Check the oil level (see "Starting up"). 6.
- Screw in and tighten the oil dipstick. Dispose of the old oil in accordance with the envi-8

ronmental regulations. Cleaning the settling cup

The settling cup separates water from the petrol.

- Close the fuel cock
- Unscrew the settling cup. 2. Illustration G
- (1) Settling cup
- (2) Screw

Remove the settling cup with O-ring.

- Clean the settling cup and O-ring using a non-in-4. flammable solvent and allow to dry.
- Fit the settling cup and O-ring and screw tight. 5.
- Open the fuel cock. 6.

- 7. Check the seal between the settling cup and carburettor
- 8. Close the fuel cock.
- Checking and cleaning the spark plug 1. Pull off the spark plug connector.
- Illustration H
- Spark plug connector
- (2) Spark plug
- 2. Clean the region around the spark plug to prevent dirt from entering the engine when the spark plug is removed.
- Unscrew the spark plug. Replace a spark plug that has worn electrodes or a 4 broken insulator.
- Check the electrode gap of the spark plug. Target value 0.7...0.8 mm. Check the spark plug seal for damage.
- **ATTENTION**

Risk of damage

A loose spark plug can overheat and damage the engine. An overtightened spark plug can damage the thread in the engine.

- Observe the following instructions for tightening the spark plug.
- Carefully screw the spark plug in by hand. Do not cross the thread.
- 8. Screw the spark plug all the way in using the plug spanner and the tighten as follows Tighten a used spark plug by an additional 1/ a
 - Tighten a new spark plug by an additional 1/2 turn.
- 9. Plug on the spark plug connector.

Troubleshooting guide

Have all checks and work on electrical parts performed by an expert.

In case of any malfunctions not mentioned in this chapter, contact the authorised Customer Service.

The engine does not start. Open the fuel cock.

- 2 Push the choke lever to the left.
- 3. Set the power switch to "I".
- 4. Fill the tank with fuel

Technical data

- Check the oil level and top up if necessary 5 Clean the fuel tank and carburettor. Refuel with
- 6 fresh fuel
- Check the spark plug (see"Care and maintenance/ 7.
- 8.
- Checking and cleaning the spark plug"). Allow a wet spark plug to dry. Then start the engine with the accelerator lever at the full speed position. Clean the settling cup (see "Care and Maintenance/ 9. Cleaning the settling cup").

Low engine performance 1. Check the air filter.

- Clean the fuel tank and carburettor. Refuel with 2. fresh fuel

Pump does not deliver any water

- Vent air from the pump.
- Check the suction hose for leaks and holes
- Check the flat seal between the device and the suc-3. tion hose.
- 4 Use a more sturdy suction hose
- Completely immerse the suction filter.
- Clean the suction filter. Position the pump closer to the water source. Re-
- duce the height difference between the pump and water surface.

8 Use shorter hoses. Low delivery rate

- Check the suction hose for leaks and holes. Check the flat seal between the device and the suc-2. tion hose.
- 3 Use a more sturdy suction hose
- Completely immerse the suction filter. 4
- Clean the suction filter.
- 6. Position the pump closer to the water source. Reduce the height difference between the pump and water surface
- Use shorter hoses.

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)

		WWP 45		
Pump				
Nominal width"		3		
Maximum flow rate	l/h	45000		
Suction height (max.)	m	7		
Delivery height (max.)	m	25		
Internal combustion engine				
Engine type		Single-cylinder		
Туре		4-stroke		
Cooling type		Air-cooled		
Engine capacity	cm ³	196		
Engine performance	kW/PS	5,1/6,9		
Fuel type		Petrol, min. 88 octane		
Fuel tank capacity	I	3,6		
Working time with a fully filled fuel tank	h	2,1		
Engine oil volume	I	0,5		
Oil type		10 W-30 15 W-40		
Spark plug type		F5T, F6TJC, F7TJC		
Dimensions and weights				
Length	mm	580		
Width	mm	440		
Height	mm	450		
Weight without fuel	kg	36		
CO ₂ Emissions according to the measurement procedure of EU regulation 2016/1628 Euro V				
Motor	g/kWh	790		

Subject to technical modifications

EU Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements in the EU Directives, both in its basic design and construction as well as in the version placed in circulation by us. This declaration is invalidated by any changes made to the machine that are not approved by us

Product: Waste water pump Type: 1.812-xxx

Currently applicable EU Directives

2006/42/EC (+2009/127/EC) 2014/30/FU

2011/65/EU

Harmonised standards used

EN 809: 1998: A1: 2009 + AC: 2010 EN 61000-6-3: 2007+A1: 2011+AC: 2010 EN 61000-6-1: 2007

Conformity evaluation procedure used

2000/14/EC: Appendix V The signatories act on behalf of and with the authority of the company management.

lus H. Jenner

S Reiser

Chairman of the Board of Management Director Regulatory Affairs & Certification

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