

Operation Manual

Fuel Oil Pump and Diesel Pump

50588, 50589, 50591, 50592, 50747, 50748, 50767, 50958, 51486, 51564, 62132, 62133, 62137



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Attention:

The device is not intended for use by persons (including children) with impaired or limited physical, sensory, and mental abilities, or lack of experience and/or real knowledge, unless they are supervised by a person responsible for their safety or you follow the instructions made by this person how to use the device correctly.

Children should be supervised to make sure that they do not play with the device.

Safety regulations

- Run a visual inspection of the device before every use. Do not use the device if safety appliances are damaged or worn out. Never override safety regulations.
- Use the device exclusively according to the intended purpose stated in the instructions for use.
- You are responsible for the safety of the working environment.
- If the cable or the plug is damaged due to external influences the cable must not be repaired! It must be replaced with a new one. This work can be carried out only by an electrician.
- The voltage indicated on the type plate of the device of 230 V AC must correspond to the existent mains voltage.
- Never lift, carry, or fix the device by using the power cable.
- Make sure that the electrical plug connection is placed in a flood-proof area and is protected from moisture.
- Disconnect the mains plug before the maintenance work.
- Avoid exposing the diesel pump to direct water jets or rain.
- The operator is responsible for compliance with location-specific safety and installation regulations. If necessary, ask a qualified electrician.
- Consequential damage arising from flooded rooms caused by dysfunctions of the device must be avoided by means of appropriate measures (e.g., by installing an alarm system, a reserve pump).
- In case of malfunction, the repair work can be carried out only by a qualified electrician.
- The device must not run dry or with a completely closed intake port. The manufacturer's guarantee is no longer valid if the damage is caused by dry running.

Attention:

Read carefully all the safety guidelines and the instructions. Non-compliance with the safety rules and regulations can lead to an electric shock, fire, and/or serious injury.

Keep the instructions and the safety guidelines in a safe place in case you need them in the future.

Resistance

- The temperature of the conveyed liquid should not exceed +35 °C in permanent operation.
- The pump must not convey aggressive fluids (acids, alkali, etc.) or fluids with abrasive substance (sand). It must **NOT** pump water or easy flammable liquids (petrol).

Field of application

For conveying and transferring fuel oil (heating oil) or diesel fuel.

Technical data

Item number	Power consumption (W)	Energy supply	Max. flow rate (l/min)	Max. pump height (m)	Max. suction height (m)	Range of temperature (°C)	Connection (mm)
50588	750	230 V / 50 Hz	80	25	5	-30 to +40	25.4 (1") internal thread
50589	550		50	30	2		
50591	550		60	36	2		
50592	550		40	36	2		
50747	600		40	36	2		
50748	550		60	30	2		
50767	600		40	36	2		
50958	550		60	30	3		
51486	550		60	30	2		
51564	375		60	15	2		
62132	550		60	30	3		
62133	550		80	30	2		
62137	750		100	25	3		

Electrical connection

- The electrical connection takes place by means of a safety socket 230 V ~ 50 Hz. Fuse protection at least 10 A.
- The pump is turned on and off by means of a built-in ON/OFF switch. The indicator lamp inside the switch lights up if the engine is started.
- The engine is protected against overloading or blocking by means of a built-in motor protection. In case of overheating the pump is turned off automatically due to the overheat protection and after its cooling, the pump is automatically started.

Suction pipeline

- Connect a suction hose (plastic hose minimum 3/4" with spiral reinforcement) directly or with a threaded fitting to the suction connection (intake connection) of the pump (1" internal thread) of the pump.
- The suction hose that is used should have a suction valve. In case the suction valve cannot be used, a check valve should be installed in the suction line.
- Position the suction line on a rising gradient from the removal point towards the pump. Avoid laying the suction line over the pump height, air bubbles in the suction line delay and prevent the suction process.
- Suction and pressure line must be placed in such a way so that they exert no mechanical pressure on the pump.
- The suction valve should lie deeply enough in the medium to be pumped. This way the drop in the fluid level prevents the pump from dry running.
- A leaking suction line prevents the suction of the pumped medium by sucking in air.



- Avoid sucking foreign particles (e.g., sand).

Commissioning

- Set up the pump on a fixed, flat place, where the temperature does not exceed 40 °C. The pump must be placed in a horizontal position, so that the bearings can function properly; screw the pump tight to its bottom part.
- Bring the suction line ready for operation. The suction hose should not be narrower than the suction connection. If the suction lift exceeds 4 m, use a suction line with a larger diameter.
- Plug the plug in an appropriate socket.
- Fill up the pump with the diesel or heating oil at the pressure port.
- During the suction process, the shut-off devices (pump nozzle and valve) in the pressure line must be completely open, so that the air existing in the suction line can escape freely.
- Depending on the suction lift and air volume in the suction line the first suction operation can take approx. 0.5 min–5 min. By longer suction times, the medium to be pumped should be re-filled.
- If the pump is removed after being used, it must be newly refilled before it is connected and operated again.

Operating the flowmeter

Functional synopsis

The control panel of the K32 flow meter uses the newest CPU with a low power consumption and modular design. Its main features are:

- complete functions,
- simple operation,
- exact measurement.

Instructions for use

The flowmeter has three buttons:

- **【RESET】** → delete button
By pressing this button, deleting is zeroised each time before filling in the oil. The flowmeter can be reinitialised with this button
- **【CAL】** → parameter adjustment button
The error correction can also be realised with this button.
- **【TOTAL】** → measurement display button
Has 5 memory positions for flowmeter readings.

Parameter errors correction method

Keep the button **【CAL】** pressed until the parameter is displayed, e.g., after displaying **【4.130】**, press the button **【RESET】** to adjust the parameter adjustment position. Press **【TOTAL】** to change the corresponding position parameter, then press **【CAL】** to finish adjustment.

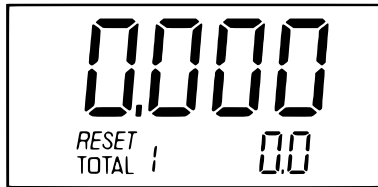
The parameter rises, the oil pump capacity lowers.
The parameter lowers, the oil pump capacity rises.

Note: In general, mainly the number behind the decimal point (mostly behind the second and third digits) is set. For example: When refuelling 100 ℓ of oil, the actual oil pump capacity is 103 ℓ, so the actual oil pump capacity is too large. If the flowmeter parameter is **【4.130】** (example parameters, the actual parameters must correspond to the current machine parameters), you can change it to **【4.230】**, then press **【CAL】** to complete the operation.

Important! After changing the setting, check the oil capacity to ensure fuelling accuracy.

【TOTAL】 button function

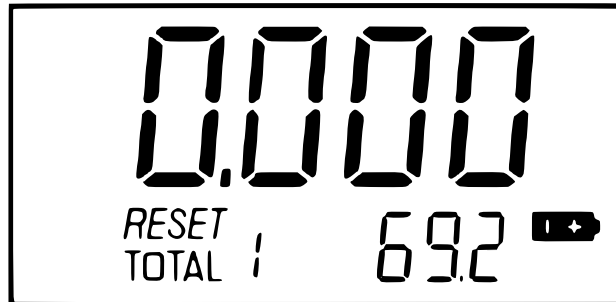
The function of the **【TOTAL】** key is to monitor the total amount of fuelling and the amount of the last five fuellings. When **【TOTAL】** is pressed, this will be displayed at the bottom of the display panel.



- RESET TOTAL 1:** Displays the previous first single fill-up.
- RESET TOTAL 2:** Displays the previous second single fuelling.
- RESET TOTAL 3:** Displays the previous third single fuelling.
- RESET TOTAL 4:** Displays the previous fourth individual fuelling.
- RESET TOTAL 5:** Displays the previous fifth one-time refuelling.
- TOTAL:** Represents the total refuelling.

To reset the **【TOTAL】** flow rate, the corresponding flowmeter reading must be selected first. Now press the **【RESET】** and **【TOTAL】** keys at the same time.

Low battery indicator



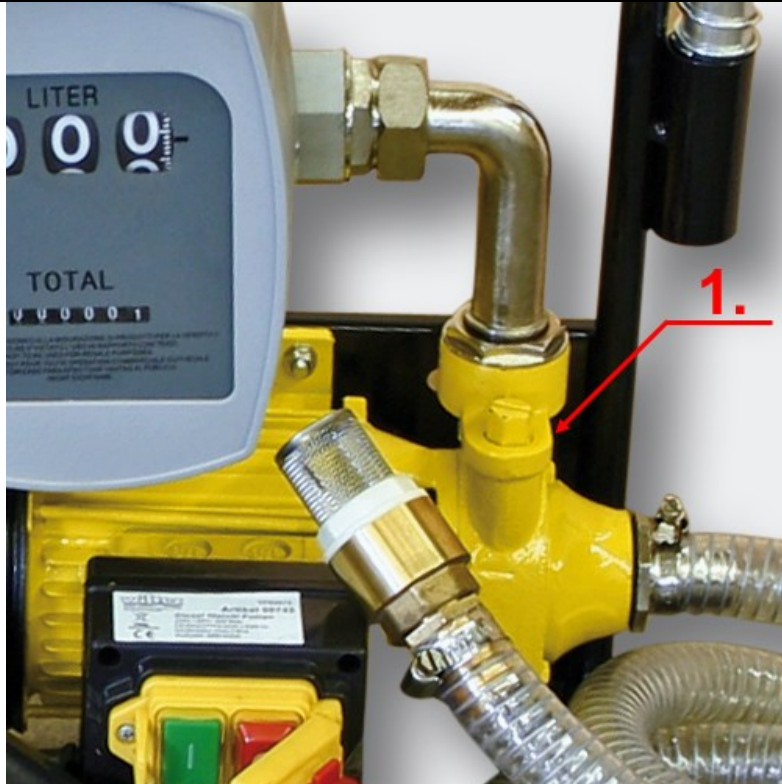
When the battery voltage is low, the corresponding notice will be displayed on the flowmeter display panel to prompt the user to replace the battery.

Associated technical specification instructions

Display range of the current filling quantity	0.000–9999.9
Error coefficient range	0.100–9.999
Standard units of the filling indicator	L (litres)
Battery life/specification	2 × LR03 (AAA) batteries, 9000 hrs run time
Suitable operating temperature range	-10 °C to +25 °C

Ventilation of pump

The filler hole (part 1, see photograph below) of the diesel pump must be removed from the pump housing. After that, by using a funnel, fill the medium to be pumped into this filler hole. Thus, the suction hose is fully filled. Filling the pump is completed when the pump body is fully filled as well. After this, the filler hole must be closed and the pump should now convey (pump) again.



Cleaning

The heating oil pump must be cleaned only by using mild cleaning agents as well as a damp cloth and soapy water. Damage caused by inappropriate cleaning agents is not covered by warranty.

Maintenance

⚠ Attention! Before every maintenance work the pump must be switched off, pull out the plug from the power socket.

- The pump is maintenance free. However, for a long operation life, we recommend regular checking and servicing.
- After long non-operation periods, check if the rotor turns properly.

Troubleshooting

Engine does not run

Causes	Solutions
No supply power (voltage).	Check voltage.
Pump impeller blocked – thermo controller has is deactivated pump	Disassemble and clean pump.
Engine not running	Consult a professional electrician.



Pump does not suck in

Cause	Corrections of malfunctions
Suction valve not inside the pumped medium	Bring the suction valve in the pumped medium.
Pump room without pump medium	Fill in pump medium in suction nozzle.
Air in suction line	Check if suction line is well sealed.
Suction valve untight	Clean suction valve.
Suction strainer/valve blocked	Clean suction strainer.
Max. suction lift exceeded	Check suction lift.

Insufficient flow rate

Cause	Corrections of malfunctions
Suction lift too high	Check suction lift.
Suction strainer is dirty	Clean suction strainer.
Level of pumped medium drops rapidly	Place suction valve more deeply.
Pump capacity reduced because of harmful substances	Clean pump and replace wearing parts.

Thermo switch shuts down pump

Cause	Corrections of malfunctions
Engine overloaded – excessive friction through foreign particles	Disassemble and clean pump, prevent suction of foreign particles (filter).



Attention! The pump must not run dry.

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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