

Operation Manual

Fuel Oil Pump and Diesel

Pump

ARTICLE 50745



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.

Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury by means of fire or electric shock 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.**

Always use a grounded power connection with the appropriate mains voltage. You can find the corresponding mains voltage on the type plate. If you have any doubts about the connection being grounded, have it checked by a qualified professional. Never use a faulty electric cable.

Do not open the pump in a wet or damp environment or when you are wet yourself and protect it from direct sunlight. Install this device in a safe location so that nobody can step on the cable, fall over or damage it. Make sure additionally you provide sufficient cooling through the ambient air and avoid heat accumulation. Disconnect the power plug before cleaning the diesel pump and use only a damp cloth for cleaning. Avoid using cleaning agents and take care that no fluids penetrate into the device.

The interior of the airbrush compressor contains no parts that can be inspected or serviced by the user. Leave the maintenance, adjustment and repair to qualified technical personnel. In case of unauthorised intervention the 2-year warranty is no longer valid! Keep these operation instructions safe.

Safety guideline



BEWARE:

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.



ATTENTION:

- Run a visual inspection of the device before every use. Do not use the device if the 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 has to 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 Volt alternating voltage has to correspond to the existent mains voltage.
- Never lift, carry or fixate 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 user is responsible for the compliance with location specific safety and installing regulations. (Ask an electrician).
- Consequential damage arising from flooded rooms caused by dysfunctions of the appliance must be avoided by means of the appropriate measures. (installing an alarm system, reserve pump).
- In case of malfunction the repair work can be carried out only by a qualified electrician or the WilTec-service.
- The appliance 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.



WARNING:

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.

Stability

The max. 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:

Power consumption	600 W
Voltage/Frequency	220V/50Hz
Max. flow rate	40 l/min
Max. delivery height	36 m
Temperature range	-30 bis +40°C
Weight	14 kg
Connection	1" Internal thread

Electrical connection

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- The electrical connection takes place by means of a safety socket 230 V ~ 50 Hz. Fuse protection at least 10 Ampere.
- 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" Inside 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 (sand etc.).

Commissioning

- Set up the pump on a fixed, flat place, where the temperature does not exceed 40°C. The pump has to 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.
- Elektrischen Anschluss herstellen.
- 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 refilled.
- If the pump is removed after being used, it has to be newly refilled before it is connected and operated again.

Ventilation of the Diesel Pump:

The filler hole (1 - see picture below) of the diesel pump must be removed from the pump housing. After that you fill in this filler hole the medium to be pumped, by using a funnel. In this way 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 has to 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

- The pump is maintenance free. For a long operation life we recommend regular checking and servicing.
Attention!
Before every maintenance work the pump must be switched off, pull out the plug from the power socket.
- After long non-operation periods check if a proper turning of the rotor takes place.

Malfunctions of the pump

Engine does not run

Cause	Corrections of malfunctions
No supply power (voltage)	Check voltage
Pump impeller is blocked– thermo controller is deactivated	Dismantle the pump and clean it
The engine does not run	Consult a professional electrician

Pump does not suck in

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

Insufficient flow rate

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

Thermo switch shuts down the pump

Cause	Corrections of malfunctions
Engine overloaded – excessive friction through foreign particles	Dismantle the pump and clean it, 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, 2002/96/EC) were implemented in the law related to electrical and electronic equipment and appliances.

All Wiltec 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 Wiltec 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.



Materials' 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.

Address:
WilTec Wildanger Technik GmbH
Königsbenden 12 / 28
D-52249 Eschweiler

Important notice:

The reprint or reproduction, even of excerpts, and any commercial use, even in part of this instructions manual require the written permission of Wiltec Wildanger Technik GmbH.

EC-Declaration of Conformity
(according to the guidelines 2004/108/EC)

Producer / person responsible	WilTec Wildanger Technik GmbH Koenigsbenden 12 52249 Eschweiler, Germany
Ensures that the product:	Heating oil / diesel pump
Type:	50745
Intended use:	For pumping and measuring und heating and diesel oil

, when properly used, is in conformity with the essential requirements and fulfils the appropriate specifications in accordance with

2004/108/EC

When evaluating the product according to the demands set by EMC, the following standards were applied:

EN 60335-1:2002 + A1:2004 + A11:2004 + A2 :2006 + A12 : 2006
EN 60335-2-41: 2003 + A1 : 2004
EN61000-6-3:2007
EN61000-6-1:2007

If the product is changed this declaration loses its validity.

Eschweiler, 13. October 2009



Bernd Wildanger
Manager

The product can be deployed in all EU-states without restrictions (as well as in other states that follow the EU-directives).