

Operation Manual

Urea/AdBlue® Pump

51353-51356



Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.



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If you have found an error or wish to suggest an improvement, we look forward to hearing from you.

Send us an e-mail to:

service@wiltec.info

or use our contact form:

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The most recent version of this manual in several languages can be found in our online shop:

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Our postal address is:

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To return your goods for exchange, repair, or other purposes, please use the following address. Attention! To allow for a trouble-free complaint or return, it is important to contact our customer service team before returning your goods.

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Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it. Keep these operation instructions in a safe place.

Safety instructions

CAUTION:

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 follow the instructions made by this person on how to correctly use the device. Children should be supervised to ensure that they do not play with the device. Children must not clean or maintain the device.

ATTENTION:

- Perform 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.
- Only use the device accordingly to the intended purpose stated in this manual.
- You are responsible for the safety of the working zone.
- 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 only be carried out by an electrician.
- The voltage of 230 V AC indicated on the nameplate of the device must match the existent mains voltage (depending on model).
- Never lift, carry, or fix the device by using the power cable.
- Make sure that the electric plug connections are protected from flood and humidity.
- Before working on the device (maintaining, repairing, cleaning it), pull out the plug.
- Avoid exposing the device to rain or direct jets of water.
- The user is responsible for complying with local safety and mounting regulations. Ask an electrician, if necessary.
- The user must take appropriate measures (e.g., installation of an alarm system, a reserve pump, etc.) to prevent damage caused by the flooding in case of device malfunctioning.
- In case of device failure, repairs can only be carried out by an electrician.
- The device must never run dry or be operated with its suction line fully closed. The manufacturer's warranty is void for damage to the device caused by dry running.

WARNING:

Read all safety precautions and instructions. Failure to obey the safety precautions and instructions might cause an electric shock, a fire, and/or severe injuries. Keep all safety precautions and instructions for future use.

Resistance

- The maximum temperature of the pumped liquid should not exceed +35 °C in continuous operation.
- The transport of aggressive fluids (acids, bases, etc.) as well as of abrasive substances (e.g., sand) must be avoided. Water must **NOT** be pumped either with the device. It is **NOT** permitted either to pump highly flammable liquids (fuel) with this pump.



General remarks

Every urea pump is tested before expedition; therefore, rests of liquids might remain inside the pump or at the packaging. Because of the test, the counter of the pump can display a value from 5 to 12 ℓ.

Features

1. High flow rate, strong suction
 2. Operation via a car battery or mains connection (depending on model), very quick and easy to operate
 3. Reliably and safe
- Before operation, check if the data given on the nameplate on the device match the intended operation conditions. If you have doubts concerning the operation, contact a qualified person and do not operate the pump.
 - The pump is only suitable to pump urea.

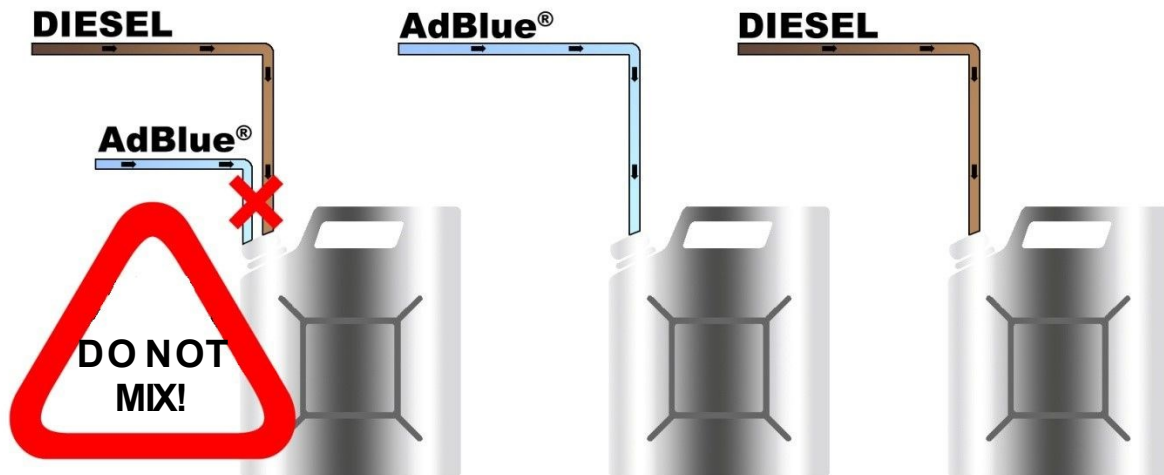
Technical specifications

Power supply	230 V ~ 50 Hz
Power consumption (W)	400
Connection (inch)	1
Temperature range (°C)	5–45
Sound level (dB (A))	75
Max. pressure (bar)	2.8 (40 psi)
Flow rate (ℓ_{min})	40
Max. suction height (m)	5
Max. lifting height (m)	15
Max. motor speed (ℓ_{min})	2950
Protection class	IP 54

Operation

- The suction height stated is the maximum lifting height under ideal conditions. Absolutely make sure that the suction line is installed in a slopy manner.
- The pump and suction line must be pre-filled with urea (AdBlue®*) before use.
- The suction and pressure line should not be shortened.
- Before use, check the tightness of the non-return valve; connect it to the end of the suction line together with a suction basket. Check the tightness of the line at the connection point.
- It is recommended to use rubber pads when installing the pump in a fixed position to reduce the transmission of vibrations and avoid consequent damages to the pump.
- When installing the lines, make sure that the connection points are not exposed to mechanical stress.
- The pump can be installed in every position.

* AdBlue® is a chemical product injected into the exhaust line from a separate tank. **AdBlue® must not be mixed with diesel fuel!** The ammoniac released during injection reacts with nitrogen oxides inside the catalytic converter, transforming them into nitrogen and steam.




Cleaning

The pump may **only** be cleaned using mild cleaning agents as well as a damp cloth and soapy water on the outside. Damage caused by inappropriate cleaning agents is not covered by warranty.

Maintenance hints

- The machine is largely maintenance-free. However, for a long working life and continuous operation, we recommend regular checking and proper care.

 **Attention!** Before every maintenance, the pump must be switched off; to do so, disconnect the pump from the power supply.

- After long non-operation periods, check if a proper turning of the rotor takes place by shortly switching on and off the motor.



Malfunctions of the pump

Engine does not run

Cause	Solution
No supply power (voltage)	Check voltage.
Blocked rotor – overheat control has switched off the device	Dismantle and clean pump.
Motor not running	Consult a professional electrician.

Pump does not suck in

Cause	Solution
Suction valve not in the pumped medium	Install suction valve inside the medium to be transported.
Pump room without pump medium	Fill in pump medium in suction nozzle.
Air in suction line	Check if suction line is well sealed.
Untight suction valve	Clean suction valve.
Blocked suction basket (suction valve)	Clean suction strainer.
Max. suction height exceeded	Check suction lift.

Insufficient flow rate

Cause	Solution
Suction height too high	Check suction lift.
Suction basket contaminated	Clean suction basket.
Medium level quickly lowering	Lower suction valve.
Pump power reduced because of contaminants	Clean pump and replace worn parts.

Thermo-switch switches off pump

Cause	Solution
Motor overcharged – too high a friction due to foreign matter	Dismantle and clean pump, prevent sucking-in of foreign matter (Filter).

 **Attention!** The pump must not run dry!

Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

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

The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.

By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.



Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

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