



Instructions for use
Technical description

Pool pumps

NIPER, NIPER 3



Before putting the pump into operation, the user and operator are obliged to familiarize themselves with the instructions for use and the warranty conditions. The manufacturer and distributor are not liable for damage caused by improper use of the product or failure to comply with the instructions for use.

1. INSTRUCTIONS FOR SAFE USE OF THE PRODUCT

Symbols  together with the words "DANGER" and "CAUTION" they point out safe use. Failure to observe them may cause injury or damage to the pump and the entire equipment.



DANGER - warning of dangerous voltage. Failure to comply with this regulation is dangerous. may result in electric shock.
voltage



DANGER - carelessness can result in personal injury or damage to property.



ATTENTION - there is a risk of damage to the pump or the entire device.

2. USE

NIPER type pool pumps are single-stage centrifugal pumps with a built-in filter basket, designed for water circulation in swimming pools.

They can also be used in fountains, wading pools, garden ponds, etc. The pumps are designed to pump clean water with a maximum temperature of 35°C.

3. MATERIAL DESIGN

Long The durability of the pumps is guaranteed by the high-quality and durable materials used, which are subject to strict control.

- pump body, rear wall, base and diffusers - glass fiber reinforced polypropylene
- impeller - NORYL reinforced with glass fiber
- shaft - stainless steel AISI 420
- engine cover - aluminum L-2521
- mechanical seal - carbon/ceramic

4. ENGINE TECHNICAL DATA

- asynchronous, two-pole, $n = 2900$ rpm.
- single-phase - 230 V, 50 Hz
- automatic thermal protection in the winding with a permanently connected capacitor
- impregnation of motor windings against moisture
- insulation class F
- IP 55 protection
- continuous operation

5. INSTALLATION

To ensure good pump performance, the pump must be installed horizontally, as close as possible to the surface of the water being pumped. In no case should the pump be placed higher than 1.5 m above the water surface.

The pump must be firmly screwed into the base to prevent vibration and noise.

The pump must be located in a ventilated environment and protected from being flooded with water from outside and from flooding.

6. INSTALLATION OF SUCTION AND DISCHARGE HOSE (PIPE)

The suction and discharge connections are removable from the pump. We recommend using a flexible spiral hose, which is connected to the nozzles using a metal clip (see diagram in point 13. TECHNICAL DATA).

It is also possible to use a plastic pipe on the outlet, which you connect to the neck using Teflon tape (it ensures a perfectly tight connection - we do not recommend using glue).

The diameter of the suction hose must never be smaller than the diameter of the suction nozzle.

The suction hose should be routed with as few bends as possible (no siphons should occur) and with a slope towards the pump if possible (this ensures that the pump is always filled with water).
Check all connections for tightness to prevent air from entering the pump - the pump must not run dry.

7. ELECTRICAL CONNECTION



Electrical installation must be carried out in accordance with the standard ČSN 33 2000-7-702 "Electrical installation of swimming pools and fountains" and may only be carried out by an authorized person with electrical qualifications.

The electrical supply of the pump must be equipped with a protection that protects the motor against overload and short circuit. The protection must be set to the rated current of the pump (the values are indicated on the pump label). The pump must only be connected to a socket with a properly connected protective pin and only if a residual current device with a rated current of 30mA is used.

The main switch must have a contact gap of at least 3 mm on each pole. Before starting the pump, make sure that the wiring is in accordance with the regulations.

The electrical connection of the pumps is shown in point 13. TECHNICAL DATA.

Before turning on the pump, check the condition of the pump and electrical installation and make sure the pump is not damaged.

The parameters of the power supply where the pump will be connected must be identical to the data on the pump label.

Check that the pump shaft rotates freely.

The direction of rotation is clockwise.

Check the correct direction of rotation through the holes in the fan cover.

8. COMMISSIONING



After making and checking all electrical and hydraulic connections, fill the pump with water through the filler hole up to the edge of the filter. Lubricate the O-rings with silicone grease and tighten the nuts securely.

Check that the suction hose is submerged in water and that all valves that could prevent the pump from working properly are open.

Turn on the power supply to start the pump. Wait patiently for the water to be drawn in (max. 5 minutes).

If the motor does not work or the pump does not suck in water, it is necessary to identify the cause according to the table, see point 11. TROUBLESHOOTING AND TROUBLESHOOTING.

9. MAINTENANCE



ATTENTION! Before any manipulation, the pump must always be disconnected from the electrical network. During normal operation, the pump is maintenance-free.

If you notice a decrease in pump performance, you must clean the filter in the pump. Never dismantle the pump while the filter is under pressure. Regularly clean all filters in the installation.

The pump does not require any special maintenance, but it is recommended to drain the water from the pump if there is a risk of the pump freezing. If it is not possible to drain the water, then fill the system with a solution of 40% propylene alcohol and 60% water (protects down to -46°C).

Do not use polypropylene glycol-based products, which are highly toxic and can damage the pump.

If the pump will not be used for a long time, we recommend disconnecting it from the installation, draining the water, drying it and storing it in a dry and ventilated room.

In the event of a malfunction, immediately turn off the pump and contact an authorized service center.

10. DISPOSAL OF THE PUMP

When disposing of the pump, follow the Waste Act No. 7/2005 Coll.

The pump as a whole is environmentally friendly (does not contain hazardous substances), and therefore it can be disposed of in recyclable materials.

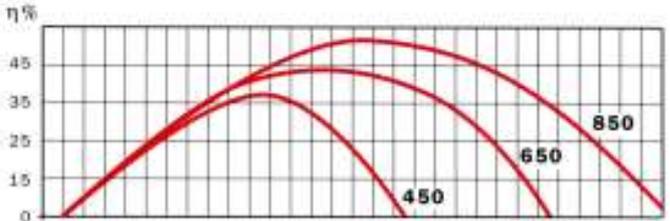
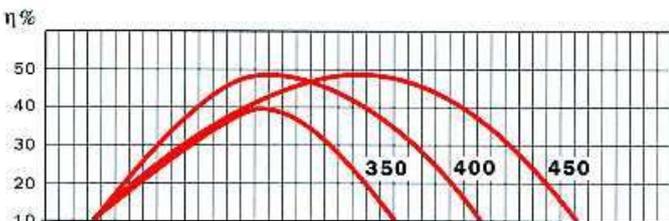
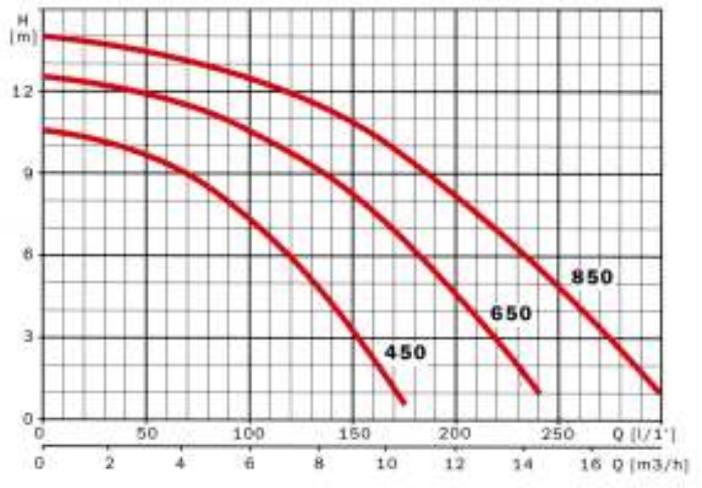
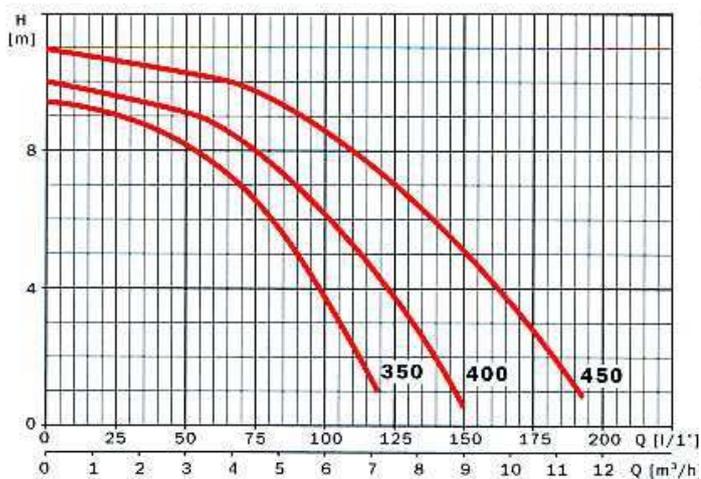
11. TROUBLESHOOTING AND TROUBLESHOOTING

When qualifying the cause of a pump failure, it is necessary to first check the electrical installation, then the hydraulic part, and only then the entire installation system.

| 1 | 2 | 3 | 4 | 5 | CAUSE | CORRECTION |
|---|---|---|---|---|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| X | X | | | | Air enters the installation through the suction side. | Check and seal the suction side. |
| X | | | | | Filter cover leak. | Clean the filter cover and check the rubber seal. |
| X | X | | | | The suction height is greater than prescribed. | Adjust the pump suction height. |
| X | X | | | | Reverse direction of motor rotation - 3 phases. | Swap the two phases of the electrical cable. |
| X | X | | X | | The voltage does not match the specification. | Turn off the pump and connect it to a power source that matches the parameters indicated on the pump label. |
| X | | | | | There is no water in the filter. | Fill the filter with water. |
| X | | | | | Low water level. The water collector is higher than the water level. | Adjust the height of the pick-up. |
| | X | | | | The suction hose has a small diameter. | Use a hose of the specified diameter. |
| | X | | | | Dirty pump filter, suction or discharge pipe. | Clean the filter, suction or discharge pipe. |
| | | X | | | The pump is not properly secured. | Reattach the pump more securely. |
| | | X | | | Foreign object in the pump. | Clean the pump and filter. |
| | | | X | | There is no voltage in the network. | Check the fuses, pull the circuit breaker. |
| | | | X | | The electrical cable is broken. | Disconnect the pump from the mains and have the electrical cable checked and repaired by a service centre. |
| | | | X | | The thermal fuse has switched off the pump. | Switch the thermal switch back on or the pump will turn on itself after the thermal contacts have cooled down. |
| | | | | X | The pump motor is blocked. | Disconnect the pump from the power supply and have it checked and repaired by a service center. |
| | | | X | | The timer has turned off the pump. | Reset the timer. |

1 - defective pump suction ability 2 - low water pressure
 3 - the pump is working loudly 4 - the pump does not want to start 5 - the engine is audible, but does not start

12. WORKING AREAS OF PUMPS



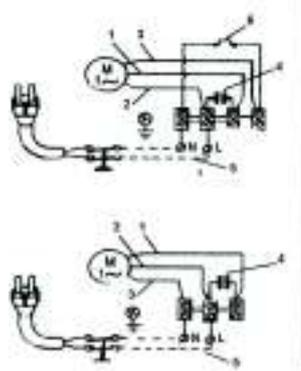
NIPER

NIPER 3

13. TECHNICAL DATA

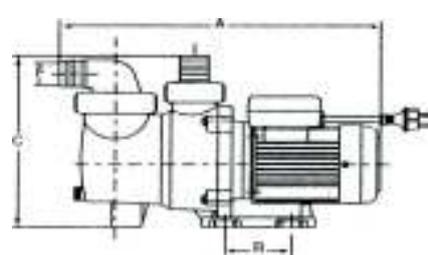
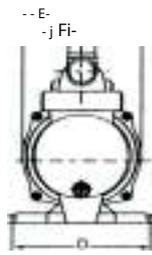
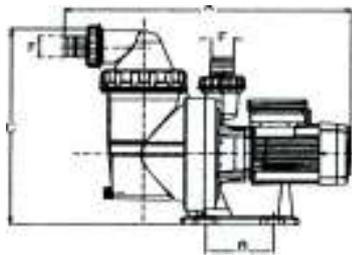
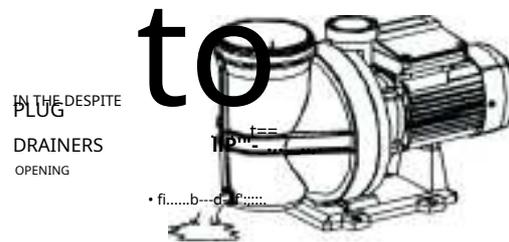
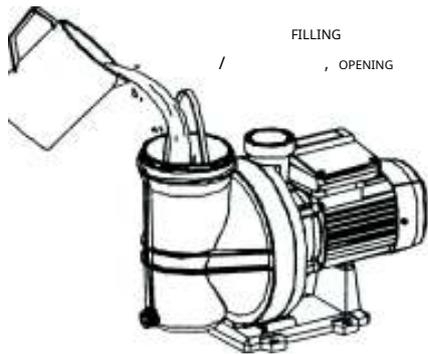
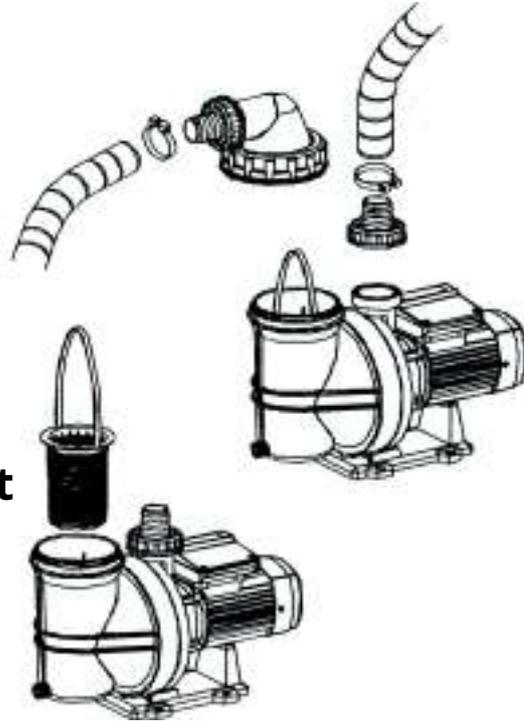
PUMP WIRING DIAGRAM SINGLE-PHASE

- 1-RED
- 2-BLUE
- 3-BLACK
- 4-CAPACITOR
- 5-Phase
- 6-HEAT PLANT PROTECTION



PUMP WIRING DIAGRAM THREE-PHASE

from 230V to 400V
at 50 Hz



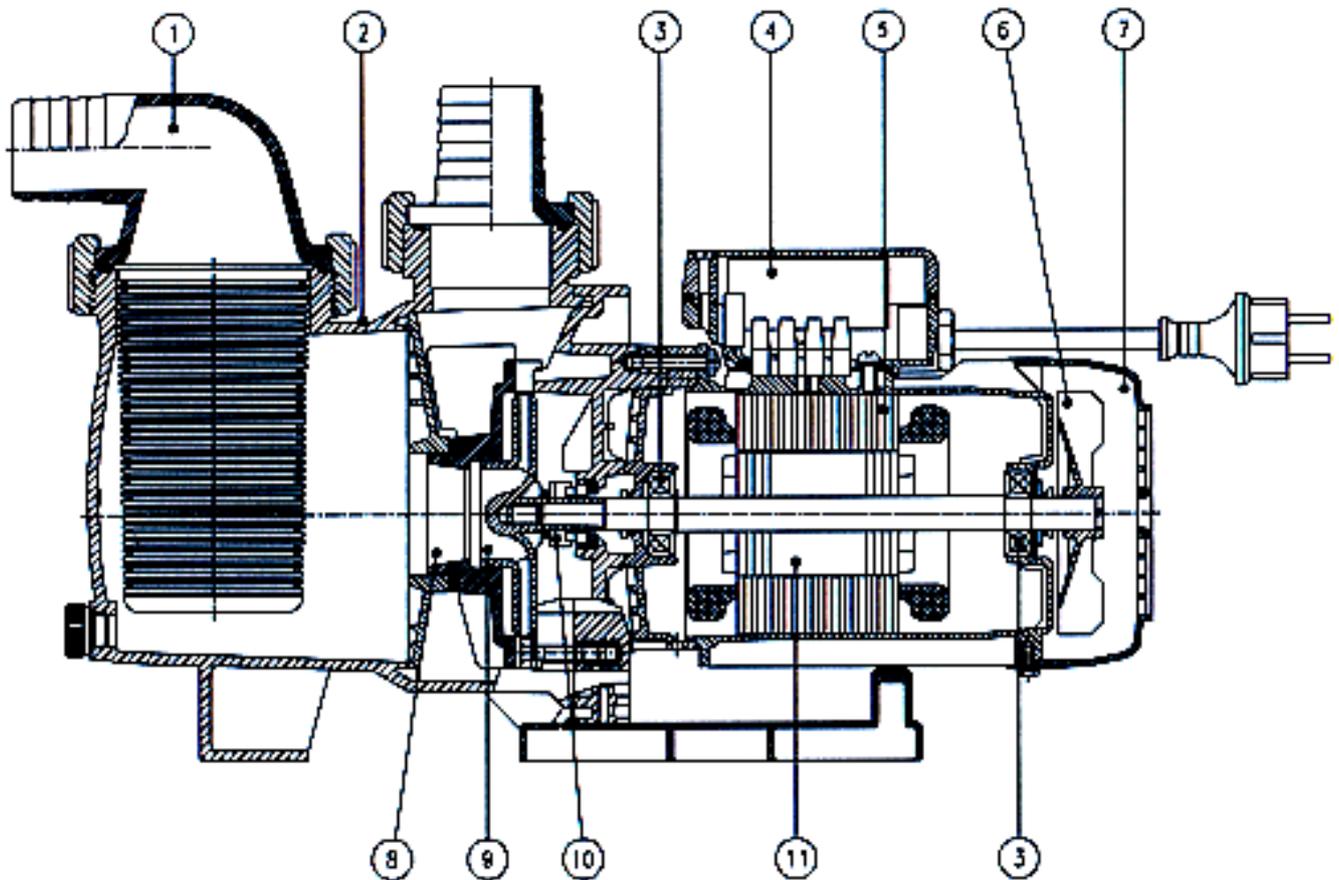
| 230V 50Hz | 400V 50Hz | Omax. (Wmin.) | H max. (m) | A1- 230V | A3- 400V | C- | P1 (kW) | IP | h(%) | AND (mm) | 8 (mm) | C (mm) | 0 (mm) | E (mm) | F (mm) | Kg |
|-------------|------------|------------------|---------------|-------------|-------------|----|------------|----|------|-------------|-----------|-----------|-----------|-----------|-----------|-----|
| NIPER1 350M | - | 120 | 9.2 | 1.4 | - | 6 | 0.28 | 55 | 35 | 426 | 88 | 253 | 141 | 158 | 40 | 5 |
| NIPER2 400M | - | 150 | 10 | 1.5 | - | 6 | 0.32 | 55 | 41 | 426 | 88 | 253 | 182 | 158 | 40 | 5 |
| NIPER2 450M | - | 185 | 11.3 | 2 | - | 12 | 0.46 | 55 | 42 | 426 | 88 | 253 | 182 | 158 | 40 | 5.5 |
| NIPER3 450M | NIPER3 450 | 180 | 12.5 | 2 | 1.1 | 12 | 0.45 | 55 | 35 | 489.5 | 115 | 366.4 | 108 | 212.5 | 40 | 7.4 |
| NIPER3 650M | NIPER3 650 | 230 | 13.5 | 2.9 | 1.2 | 12 | 0.65 | 55 | 42 | 489.5 | 115 | 366.4 | 108 | 212.5 | 40 | 7.7 |
| NIPER3 850M | NIPER3 850 | 290 | 14 | 3.8 | 1.5 | 12 | 0.85 | 55 | 50 | 489.5 | 115 | 366.4 | 108 | 212.5 | 40 | 8.4 |

14. REPAIR RECORDS

| Accepted into repairs | Description of the repair performed | Stamp, signature | Sent |
|-----------------------|-------------------------------------|------------------|------|
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

To be completed by an authorized service center.

17. NIPER PUMP CUT



1. Suction body
2. Pump housing
3. Bearing
4. Capacitor
5. Stator
6. Fan
7. Fan cover
8. Diffuser
9. Impeller
10. Mechanical seal
11. Rotor

18. SAFETY PRINCIPLES



Before starting the pump, it is necessary to familiarize yourself with the operating instructions in detail and, above all, with the principles of safety of use. Trouble-free operation of the pump is only guaranteed if the installation and operating instructions and electrical wiring are strictly followed.

1. Electrical installation must only be carried out by a person with the appropriate professional qualifications according to Decree 50/78. The device may only be used by adults. Children are prohibited from operating the pumps.
2. Before connecting the device to the power source, check whether the cable, plug and socket are in technically adequate condition and comply with valid ČSN standards, or whether the device is not damaged.
3. Do not use pumps to pump aggressive, flammable or explosive liquids.
4. Use only specified cables and cords as recommended by the manufacturer for each type.
5. Use only special connection kits to connect electrical cables. Entrust the hermetic connection of cables to a specialist company.
6. It is forbidden to use the device with damaged cables, i.e. broken insulation. In case of broken cable insulation, immediately disconnect the pump from the power supply.
7. The parameters of the socket where you will connect the pump must be identical to the data on the pump label and its design must comply with the surrounding environment and external influences, see ČSN 33 2000-3, ČSN 33 2000-4-47 and ČSN 33 2000-5-51.
8. Before connecting the pump to the mains, check that there are no people or animals in the area from which water will be pumped.
9. It is prohibited to operate pumps under the influence of narcotics, alcohol or other substances that reduce perception.
10. Do not lay electrical cables in unlit and difficult-to-access places (in concrete, walls, etc.), i.e. where their technical inspection is difficult.
11. Do not handle (carry) the pump while it is operating.
12. Any design changes and unauthorized interventions in the pump function are prohibited. Only original spare parts must be used for repairs.
13. Never operate the electric pump with wet hands, barefoot or with your feet in water.
14. If the pump is found to be malfunctioning or damaged, immediately disconnect it from the power supply. In such a case, contact an authorized repair shop immediately.
15. It is forbidden to use pumps in water with a temperature lower than 4°C and higher than 35°C. The pump and hoses must be protected against freezing.
16. Neither the manufacturer nor the distributor is liable for damage caused by unauthorized intervention in the pump's function, the use of non-original spare parts, connecting the pump to a source that does not meet the prescribed parameters, using the device for purposes other than those prescribed, and other causes that do not comply with the instructions given in this user manual.
17. The manufacturer and distributor are not liable for damage to people, animals or property resulting from faulty installation. The pump's electrical supply must be equipped with protection that protects the motor against overload and short circuit. The protection must be set to the rated current (the values are stated on the pump's nameplate). 230 V pumps have thermal protection installed by the manufacturer.
18. The user is obliged to regularly (at least once a year) ensure the control of electrical parameters according to ČSN 33 1610 and ČSN 33 1600.

19. WARRANTY CONDITIONS

1. The warranty card is a document of the customer's right to make a complaint. It must be carefully kept and presented. The warranty card includes a document of purchase of the goods issued by the seller. every complaint
2. The purchased product is guaranteed for 24 months from the date of sale. The seller must fill in the warranty card properly and legibly, mark the date of sale and provide it with a stamp and signature.
3. When taking over the product, check whether the seller has properly filled out the warranty card and immediately notify the seller of any missing information, otherwise you will lose your rights under the warranty.
4. During the warranty period, the warranty applies to damage caused by hidden material defects or defects caused in the manufacturing process.
5. Warranty repairs will be carried out according to the current warranty conditions valid in the Czech Republic.
6. Warranty repairs can only be carried out on the basis of a valid and correctly completed Warranty Certificate and Repair Record sheet.
7. Defect reporting should be made directly to the service center, i.e. outside the point of sale (unless it is an authorized center).
8. Exchange of goods for other goods or refund of cash may occur in the event that:
 - a) the claimed goods do not show signs of use and this fact is confirmed by the service center,
 - b) warranty repair cannot be provided within the time limit according to the warranty conditions valid in the Czech Republic.
9. The warranty is extended by the time required to perform the warranty repair.
10. Warranty repairs do not apply to:
 - damage caused by unprofessional operation
 - damage caused by using the device for purposes other than recommended
 - damage caused by scale or other mineral deposits on pump parts
 - damage caused by mechanical damage
 - damage caused by using connections of non-prescribed strength, length and tightness (both electrical and hydraulic)
 - damage caused by poor storage
 - burning of the motor winding caused by overloading or "dry running"
 - damage to surface coatings
 - parts naturally worn out during the warranty period (rubber seals)
11. The warranty expires:
 - in the event of changes to the design made by the user and not approved by the manufacturer (this also applies to shortening the power cable)
 - in case of detection of attempts to interfere inside the pump by unauthorized persons (does not apply to activities related to the installation of the pump according to these instructions)
 - in case of detection of corrections to the text written by the point of sale
 - in case of detection of the use of non-original spare parts during repairs
 - in the event of force majeure
12. The defective device must be delivered to the service center in a complete condition and properly cleaned. Any unauthorized attempts at repairs or technical modifications will void the warranty.
13. In the event that the user sends the device for repair, the guarantor covers the costs of the shipment according to the valid price lists of transport companies up to 50 kg (e.g. General Parcel Čechy, PPL, Czech Post) and over 50 kg (e.g. TOPTRANS).
14. In the event of an unrecognized complaint, the user bears the costs associated with the transport and inspection of the pump under complaint. An unrecognized complaint is understood to mean a situation where:
 - a) the pump parameters and functions are identical to the manufacturer's data
 - b) the damage is the result of poor assembly or a procedure that is not in accordance with the operating instructions
 - c) the complaint concerns service activities
15. The warranty process begins from the moment the device is received by the service center along with complete documentation, i.e. a well-filled Warranty Certificate and Repair Record sheet.



WARRANTY CERTIFICATE

on the quality and completeness of ESPA pumps with reference to the complaints procedure of the Civil Code

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Name Pool pump NIPER | Type <small>(data from the label)</small> NIPER |
| Serial number <small>(data from the label)</small> | Warranty period <small>(from date of sale)</small> |
| Production date | Sale date |
| Seller's name, stamp and signature | |
| The mechanical installation of the product was carried out by the company <small>(name, stamp, signature and date of installation)</small> | |
| The electrical installation of the product was carried out by the company <small>(name, stamp, signature and date of installation)</small> | |
| <small>Exclusive representative for the Czech Republic</small> | CHECKED |

The warranty certificate must be filled out by the seller on the day of sale in the presence of the buyer. The buyer is obliged to familiarize himself with the warranty conditions. Any changes made to the existing warranty certificate are grounds for not recognizing the warranty. The warranty is provided if all conditions for installation and operation specified in this document are observed.

I agree to the warranty terms and conditions:

On

Buyer's signature.....