



# TECHNICAL PASSPORT


## of the Condensate removal pump

### VL-10


## Introduction

This Technical passport and operating instructions are made to introduce you the Condensate removal pump and its design, principle of operation, installation and maintenance.

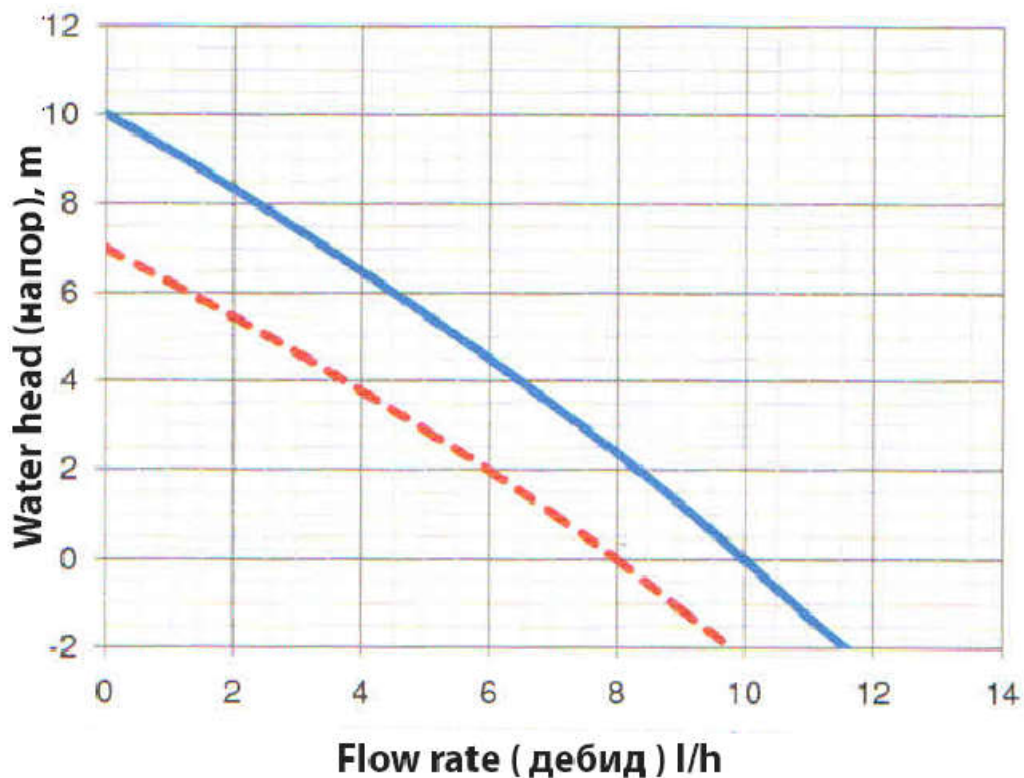
The purpose of the pumps from this model is automatically drain condensate from the indoor unit of the air-conditioning systems and also from any other cooling equipment.

 Attention! Do not use the pump to remove liquids different than condensed moisture (water), because this could damage the pump.

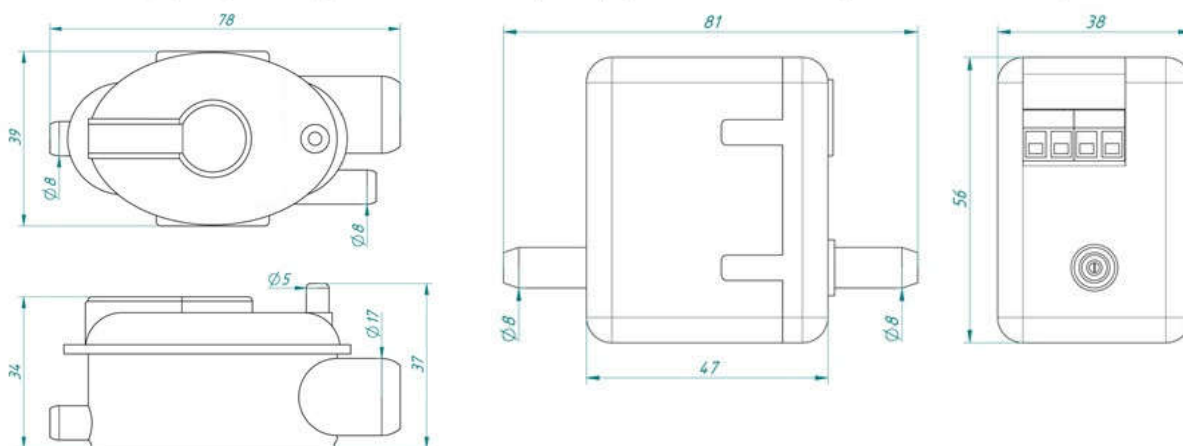
Reliability of the pump and its the long-term usage mainly depends from its proper operation, so before installing and starting it, you should get to know with the current technical description and operating instructions.

 Attention! There is a risk of electric shock. This pump is plugged to power supply 220V (50Hz). It is very important to use insulation material accordance to the requirements for high voltage operation.

Power supply voltage	220 V (50Hz)
Operating current	Up to 70mA
Max. water flow rate	10 L/h @0m
Max. suction height	1,5 m.
Max. pressure (water head)	10 m. @0 L/h
Max. length of the pipe	30 m.
Max. water temperature	40 °C
Sound level	20-24 dBA
Dimensions of the inlet/outlet pipe	Ø 17/8 mm
Weight (mass), net/gross	140 / 230 gr



— In case 0m suction head (при нулева смукателна височина)
 - - - In case max suction head (при максимална смукателна височина)



## Instructions for installation and initial start-up of the pump

Before operating the condensate pump system, carefully rinse the fluid collection vessel and the inlet pipe from the air conditioner with clean water, to remove extrinsic particles that could make difficult to run the system.

Connect the level sensor to the pump housing using a tube (not supplied) of no more than 1.5 m length. The arrow on the pump housing shows the direction of movement of the liquid.

Connect the bigger opening of the level sensor to the condensate drain tube outlet pipe. If necessary use an additional tube and clamps. Make good sealing of the hydraulic connections.

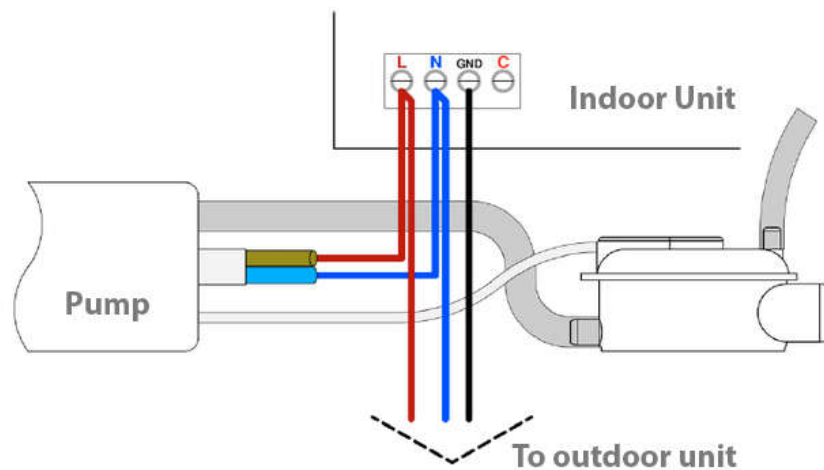
Set the level sensor horizontally (the allowable deviation - no more than 100), if necessary use double-sided adhesive tape or other fasteners.

Install the pump so that there is some free space around it to achieve long-lasting cooling. To minimize machine noise, isolate it from hard mechanical contact with the parts of the air conditioner. When the pump operates - it vibrates. So only stable wall attachment is acceptable. For this use rubber inserts (not supplied) or other types of vibro-gaskets.

**⚠ Important! Do not install the pump in areas where it may be flooded or freezed!**

Connect power supply of the pump to terminals marked with L-phase and N-zero to a 220 V voltage source using size of isolated cable not less than  $2 \times 0,75 \text{ mm}^2$ . If necessary, connect the Emergency Signal Terminals, marked COM and NC (normally closed contact), to the appropriate line of the indoor unit of the air conditioner, to prevent overflow and leakage of drainage.

**⚠ Attention! Do not use the emergency alarm terminal to power supply of the outdoor unit of the air conditioner or other powerful electrical consumers. The emergency exit is intended for alarming or interruption of the electrical connection of the indoor unit of the air conditioner.**




The given scheme is example for connection of the emergency switch. It is one of many possibilities of its use, other options which are also acceptable. To choice the right scheme of connection ask seller of the air conditioner.


**⚠ Important! The maximum working current through the emergency exit is 8A with non-inductive load, with an inductive load, the working current is significantly smaller.**

**⚠ Important! Do not allow unduly folding or flattening of the pipeline, as this may bring out significant reduction in efficiency and/or damage to the pump!**

## Pump maintenance

In case of constant use of the air conditioner, it is recommended to disassemble the level sensor every six months and thoroughly to clean it from any external layers (sludge, fungi, molds, dust). It is recommended that the procedure be performed in spring and in autumn with a specially designed antibacterial solution.

 Important! Before assembling the sensor, make sure its magnet is located on the top of it!

 Important! After cleaning the heat exchanger of the indoor unit air conditioner, allow the system to run for 1 hour in cooling mode. Then clean the level sensor container from the washed dirt!

## Warranty

Warranty period - 12 months from the date of sale to the end user. The manufacturer ensures that the product meets the safety requirements, supposing user complies with the above-described rules for installation, operation and maintenance.

The guarantee covers all defects arising from the fault of the manufacturer.

The warranty does not cover defects resulting from:

- Breaches of passport requirements for: operation, installation and servicing of the pump;
- Existence of traces of treatment with substances that are aggressive to the materials from which the pump is made;
- Existence of damages resulting from fire, natural disasters, force majeure conditions or improper actions of the user;
- Existence of traces from external impacts on the pump body.

Pretences concerning product quality may be claimed within the warranty period. The product returns within the warranty period could be done if customer brings back the complete set of the pump.