



## SANIBO grinding pump - instruction manual

**CAUTION:** read the manual prior to commencement of use. For safety reasons, the pump can only be operated by persons well-familiarised with the instruction manual.

**CAUTION:** the manual is a primary part of the purchase and sale contract. Failure caused by the use that is inconsistent with instructions of its use included in the manual is a breach of the contract and excludes any complaints arising from potential device failure.



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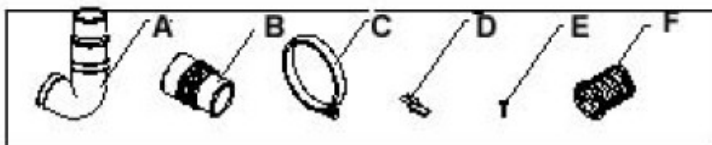
This equipment is not intended for use by persons (including children) with reduced motor, sensory or mental capacities, or persons without experience or not familiarised with the equipment, unless it is performed under supervision or according to the instruction regarding operation provided by persons responsible for their safety.

Attention should be paid so that children do not play with the equipment.

**CAUTION:** before installation please check if all accessories have been removed from pump chamber. The chamber shall be empty prior to the first start up.

**THE COMPLETE SET CONSISTS OF:**

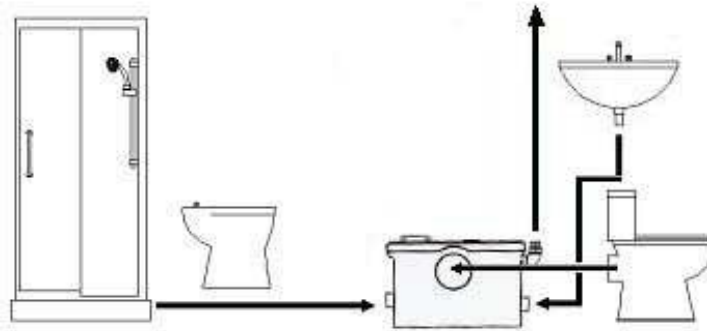
- SANIBO pump x 1
- 'C' metal brackets for mounting x 3
- 'F' end caps x 2
- 'B' rubber inlet couplers  $\Phi 40\text{mm}$  x 2
- 'A' discharge elbow with pipe adaptor/reducer  $\Phi 40\text{mm}$  x 2
- 'D' floor mounting brackets with 'E' screws x 2
- Instruction manual x 1



**APPLICATION:**

SANIBO pumps referred to in the manual are intended for pumping water with organic sewage

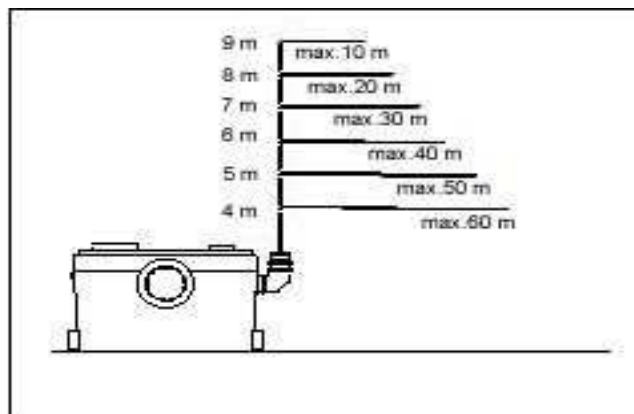
(droppings + toilet paper) from toilet bowls and dirty water from sinks, baths, showers, washing machines and dishwashers.



The pump may be used only in private households. The pump is not intended for use in points of interests. The pump is not intended for use in commercial properties incl. gastronomical, manufacturing, service.

The pump may be connected to a toilet bowl that has a horizontal outlet. Acceptable temperature of water subject to pumping ranges between 1°C and 45°C.

The pump may pump sewage up to 9m in vertical and up to 60m in horizontal (every elbow and valve shall be counted as additional 1m in vertical). During mounting of horizontal pipe sections one shall also include 0.5%-1% decline. Increase in vertical distance results in decrease in horizontal distance of pumping as it is described on the graph below:



The pump is intended for pumping water without solid particles that may block pump's rotor.



The pumping of water containing such objects like sanitary towels, tampons, condoms, fragments of clothes, objects made of wood, metal, plastic, food may block the device and lead to a breakdown. In such a case, only paid repair of the pump is available.

The pump is not intended to pump corrosive and flammable substances, with disruptive or explosive

properties (e.g. petrol, nitro, petroleum etc.) , salty water. Failures caused by pumping of these liquids do not subject to warranty repairs.

The pump is not intended to pump water containing excessive amounts of mineral elements causing deposition of scale on the pumping elements. The pump is not intended to pump water containing abrasive contamination like sand. The use of the pump in such conditions results in premature wear and tear of the operating elements of the pump. In such a case, only paid repair of the pump is available.

The pump cannot pump water containing oils and petroleum derivatives. The pump operation in such water can lead to destruction of rubber elements, e.g. cables or sealing, and result in leakage in the pump and motor failure. In such a case, only paid repair of the pump is available.

The pumped water cannot contain long-tread fibrous contamination like threads, laces etc.

Acceptable pH ratio of the pumped water ranges between 4 and 10.

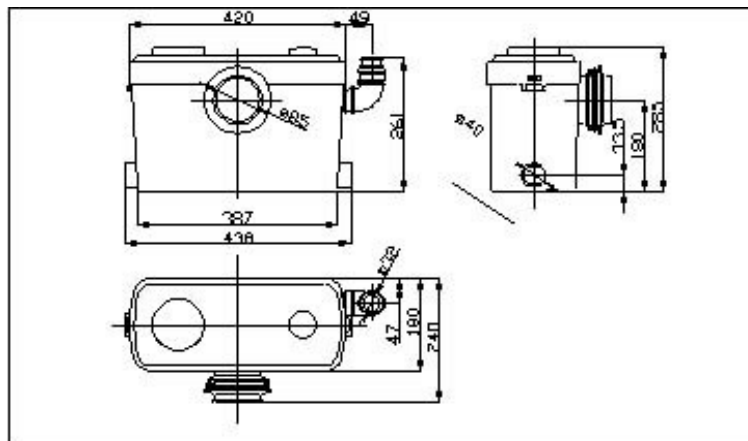
### INSTALLATION:

Points from which water is drained shall be fully airtight. Leaking tap or cistern result in automatic activation of the pump. All connections of pipes outgoing or ingoing into the pump must be fully airtight. As a result of a leak water may get into pump's motor and damage it.

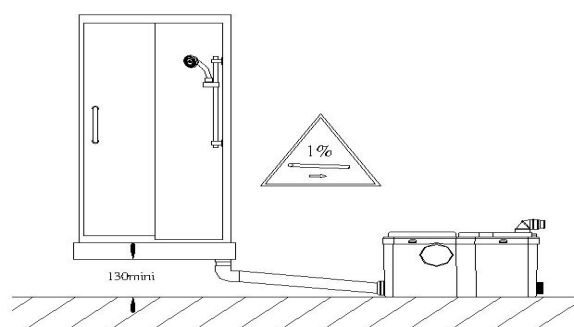
The supply set contains end caps for plugging unused inlets. This device is equipped with a check valve. The user shall install the main check valve at pump's outlet. Check valves are easy accessible in hydraulic/DIY shops. A pump without the main check valve may spontaneously switch on.

A pressure pipe shall be mounted in a manner that prevents siphons. A horizontal pipe shall be mounted with at least 1% decline (1cm height difference with every 1m of pipe).

A pressure pipe shall be mounted to a wall with the use of jubilee clips in order not to transmit the load into the pump. A toilet bowl's height shall be within the limits between 170-180mm.



A shower tray shall be connected in a manner that provides draining at least 130mm above floor level.



## OPERATION:

The pump works automatically. If the pump's chamber is filled in with 6 Ltrs of sewage the pumps turns on automatically. After pumping out this contents the pump also turns off automatically. Working cycle lasts approx. 8 seconds.

There is a button - hand switch on the pump's top cover. In order to turn on the pump manually you shall press this button.

## ELECTRIC INSTALLATION:

230V/50Hz power supply with earthing must be led to the pump.



The pump plug must be connected to a network with active earthing. The manufacturer and guarantor are not liable for any damage to people or property resulting from lack of proper earthing. The yellow-green core of the connection cable is earthing.



The powering network must be equipped with an installation, overcurrent motor switch, e.g. M611, securing the motor against overload. In order to provide maximum overload protection for the motor, the switch must be set to max winding current 3A. The pump can operate without this protection, but in case of a failure caused by overload, the repair costs are incurred by the user.



The powering installation of the pump must be equipped with a residual current device, with rated making current AI not exceeding 30 mA. The manufacturer and guarantor are not liable for any damage to people or property resulting from supplying the pump with power without a proper switch.

If a supply cable is damaged, the pump use is forbidden. In such a case, it is necessary to contact the guarantor with the purpose of cable replacement. Mechanical damages are not subject to warranty repairs that are free of charge.

The pump cannot be used in case of voltage drop below 210 V. The use of the pump in such conditions may lead to motor overload and its failure. In such a case, only paid repair is available.

## TECHNICAL DATA:

Capacity	150 L/min.
Max head	9.5m
Motor power	600 W
Capacitor	16 $\mu$ F/450V

## MAINTENANCE:

Prior to performance of any maintenance activities, disconnect the pump from the power network.

Pump's casing should not be washed with running water. You shall use a wet dishcloth instead.

In case when the pump rotor is blocked with contamination, the rotor chamber must be cleaned for the purpose of performance of maintenance actions. During the warranty period the user may try to unblock the rotor through disconnecting a toilet bowl and removing all objects, which block the rotor, from the chamber

and are accessible through inlet aperture. If an object got deeper into the pump and, blocked the rotor and it is impossible to remove it through the inlet, only an authorised after-sale service is may to carry out its removal during the warranty period. In order to send the pump to the after-sale service you shall disconnect all inlet and outlet pipes, tip all the remaing sewage , carefully enwrap the pump protecting it against transport damages. The pump may be sent directly to the guarantor or brought to a shop where it was sold with a request to forward it to the guarantor.

#### **DISPOSAL:**



The worn out product is subject to disposal as wastes only in selective waste collection systems organised by the Network of Communal Electric and Electronic Waste Collection Centres. The customer is entitled to return the used equipment to the network of the electric equipment distributor, at least for free and directly, if the returned device is of proper type and fulfils the same function as a newly purchased device.

#### **EC DECLARATION OF CONFORMITY (Module A):**

Gawartowa Wola 38, 05-085 KAMPINOS

Under the Act of 30 August 2002 on the conformity system (Journal of Laws of 2004, No. 204 item 2087) we declare with full responsibility that SANIBO 5 pump to which this declaration refers to is consistent with the following guidelines of the Council on legal regulations unification in member states of EC:

- 1) MD 98/37/EC (applied standards EN 292-1:1991, EN 292-2-1991/A1: 1995, PN- EN 809:1999/AC: 2004)
- 2) EMC 89/336/EC (applied standards PN-EN 55014-1:2004, PN-EN 61000-3-2:2004)
- 3) LVD 73/23/EC (applied standards PN-EN 60335-1:2004+A1:2005+A2:2008+ A12:2008, PN-EN 60335-2-41:2005)

Adam Jastrzębski, 10.11.2009