Instruction manual of pumps
WQ, WQF, SN, Furiatka, Furia, KRAKEN, BIG, IP, IPE, SWQ, CTR

NOTE: 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.

NOTE: 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.

CAUTION!

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.

APPLICATION:

The pumps referred to in the manual are intended for pumping clean and contaminated water. WQ pumps can used in households to drain septic tanks, pumping out water from flooded rooms, etc. In the industry, farming and any other professional application that require a strong submersible pump for sewage or contaminated water.

Water contamination cannot have a wider diameter than permissible for the said pump type (look technical data) and cannot be of abrasive type, such as sand or gravel. The content of solid particles in water cannot exceed 10%.
pump is intended for pumping water with no solid-abrasive particles

Pumping water containing sand results in fast wear and tear of the pump and, in consequence, it its failure. In such a case, only paid repair is available.
The pump is not adjusted to pump caustic, flammable, destructive or explosive substances (e.g. petrol, nitro, oil, etc.), foodstuffs or salty water. Failure caused by pumping of the same type of liquid is not subject to warranty repair.

The maximal temperature of the pumped water is 35°C.

The pump is not adjusted to pump water containing excessive amounts of mineral elements causing deposition of scale on the pumping elements. 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.

Pumped water cannot contain long-tread fibrous contamination whose maximal length exceeds the max. contamination diameter included in technical data of the said pump type.

PUMP INSTALLATION:

Pumps included in this manual are submersible pumps, i.e. they operate in submersion in the pumped water. The minimal level of pump submersion during operation is 25 cm. The pump can pump at lower submersion but, in this case, it is necessary that the user directly supervises pump operation. In case pf any operation disturbances, it pump must be disconnected from the power supply.

The Pump cannot operate “dry” without water. “Dry” operation can lead to device contamination. In such a case, only paid repair is available.

Pumps can be equipped with a float switch - an electrical switch control that can automatically switch the pump on depending on the water level.

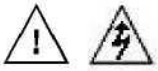
When the water level increases, the hollow float, floating on the water surface, goes up with the water. When it reaches the switch-on level, the metal ball inside the float goes down, concurrently, connecting the electrical contacts which results in the launch of pump motor. In the process of pumping, the water surface level decreases and the float switch, along with it, lowers its position. When it reaches the switch-off level, the ball inside the float disconnects the contacts, concurrently, switching off the pump motor. The user can change the switch-on and switch-off level can by regulating the cable length between the float handle and float itself.

Minimal cable length between the float and its handle cannot be less than 8 cm. Failure to observe this indication can lead to destruction of float cable insulation. In such a case, only paid repair is available. Look pic.

Min. dimensions of the drained tank should allow the float to freely move around in the pumped liquid, concurrently, not touching the tank walls. If there is a hazard that the float can get attached to the tank wall, the pump operation should be subject to direct supervision of the user so that there is no failure connected with potential “dry” operation.

Water from a pump with a discharge pump flows out (look pic.) A pumping hose must be mounted on the discharge port.

It must be attached to the port with a CB clamp (a metal band). When selecting a pumping hose, it must be remembered that the end device capacity depends on the hose diameter and length. The smaller hose diameter and longer length, the lower capacity at the hose. The same principle concerns the difference between water mirror level in the tank from which the water is pumped and the level onto which it is pumped. The bigger difference between levels, the lower pump capacity. The parameter of max. lifting height provided in the technical data sets the maximal pressure which can be generated by the pump. At this pressure, pump capacity is equal to zero.
During pump submersion in the drained tank, it must be observed that the pump is lowered by means of a rope attached to the pump handle.



CAUTION!!! It is forbidden to lift and lower the pump by means of the power supply cable or float. Lifting or lowering pump with the use of the cable or float, in the best case scenario, leads to cable destruction, in the worst case scenario, can result in electrocution. The guarantor and manufacturer is not subject to any liability in case of inobservance of this requirement. The paid repair of the damaged cable is only available, not subject to a guarantee.

In case there can be sand or stones in the bottom of the drained tank that can damage the rotor, the pump must be suspended with a rope at least 0.5 m above the bottom so that sand or stones are not sucked in.

Note: oil was used as lubricant in the pump. Unsealing can result in oil leakage and subsequent water contamination.

CAUTION!!! It is forbidden to put in hands into the discharge and suction ports, or disconnect it from the pump power supply. Pump has an built-in shredding mechanism which can cause the loss of fingers.

ELECTRIC INSTALLATION:

230V/50Hz power supply with earthing must be led to the pump.
Electric grid supplying the pump must have rate data according to the rate plate of 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.

Pumps can be equipped with a overcurrent switch-off installed on the cable at a distance of about 1 m from a plug in a cable box.
In case of motor overload, the switch will shut down the power. The switch-off button will lift. **The relaunch by pressing the button is only possible after pump disconnection from the electric mains**, checking if the pump is not blocked, and potential removal of the blockage. An attempt to unblock the pump without its prior disconnection from the electric mains can result in serious injuries. The cable box with the overcurrent protection switch must be protected against dirt and moisture.

The powering network must be equipped with an installation, overcurrent motor circuit breaker, in e.g. M611, securing the motor against overload. In order to provide maximum overload protection for the motor, the switch must be set to maximum coil current provided on the rating plate. 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 ΔI_n 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.

It is forbidden that there are present people or animals in the water where the pump works.

In case of supply cable or float insulation 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 use of the pump with damaged cable insulation, in the best case scenario, will lead to motor flooding with water, whereas, in the worst case scenario, it can result in electrocution.

If the pump operates at a significant distance from the premises and power is provided by means of a extension cable which length exceeds 20 m, prior to pump launch, the voltage at the end of the extension cable must be checked. It must be remembered that the longer the cable, the lower the supply voltage at its end.

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

MAINTENANCE:

Prior to performance of any maintenance activities, disconnect the pump from the power network. In a case when the pump rotor is blocked with contamination, the rotor chamber must be cleaned for the purpose of performance of maintenance actions. After each use, the pump must be removed from the tank and flushed with clean water.

STORAGE:

The cleaned pump must be stored in a dry room.

Attention must be paid so that the pump is not placed on the supply cable. When the pump weight is significant and the storage period is long, it can result in cable insulation destruction.

DEVICE DISPOSAL:

The used 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):

PHU DAMBAT
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 pumps included in the series WQF, WQ, CTR, SWQ, IP, IPS, Furiatka, Furia, IPE, SN, KRAKEN, BIG to which this declaration refers to are consistent with the following guidelines of the Council on legal regulations unification in member states of EC:

1) **MD 2006/42/EC (applied standards EN 292-1:1991, EN 292-2-1991/A1: 1995, PN- EN 809:1999/AC: 2004)**
2) **EMC 2004/108/EC (applied standards PN-EN 55014-1:2004, PN-EN 61000-3-2:2004)**
3) **LVD 2006/95/EC (applied standards PN-EN 60335-1:2004+A1:2005+A2:2008+ A12:2008,**

PN-EN 60335-2-41:2005)

Adam Jastrzębski 23.01.2011

POSSIBLE OPERATION PROBLEMS AND TROUBLESHOOTING:

Sign:	Possible cause:	Problem solution:
The pump does not operate	Float switch is the position “switch off”	Wait until the amount of water in the pump well will be sufficient for automatic launch of the pump by means of the float switch.
	The amount of water in a pump well is not sufficient to lift the float to a position “switch on”	
	The float got attached to something and cannot change its position into “switch on”	Check if the float can move around freely.
	No power supply	Check if the electric plug of the pump is properly inserted into the electric socket.
		Check fuses at home and all other types of installation fuses that can cut off the power supply from the network
		Check if there is a power supply in your neighbourhood - power can be shut down by the power enterprise in the larger area.

	Pump is blocked	Disconnect the pump from power supply. Upon pump removal from the tank unblock the pump rotor. Before you place the pump back into the tank, check if the rotor can rotate without difficulties.
Pump operates but does not feed water	Discharge port or pipeline (hose) is blocked	Disconnect the pump from power supply. Upon pump removal from the tank unblock the discharge port. Check and in necessary return the patency of the pumping pipeline (hose).
	Too high resistance at flow through the pumping pipeline (hose).	Check if the maximal value of lifting for the said pump type was not exceeded. The difference between the level of the water mirror in the tank from which the water is pumped, the level onto which the water is pumped, the length of the pumping pipeline (hose) and its diameter are factors which influence the height of lifting that must be performed by the pump. If the resistance is too high for the said pump type, replace the pump with another one with greater lifting height.
	Not enough water in the pump well	Check if the float is not stuck at tank wall, disabling the automatic launch Release the float
Pump does not switch on despite water is drained	The float got stuck at the tank wall or pumping pipeline (hose)	Check if the float is not stuck at tank wall, disabling the automatic launch Release the float
	The float is blocked in the position “switch on”	Replace the float in an authorised service
Intermittent pump operation Thermal switch mounted inside the pump stops the power flow	Pump is not completely submerged in water	Check the water level in the pump well. Release the suspended float
	The temperature of the pumped water is too high.	Check if the water temperature is not too high for the said pump type.
Pump frequently switches on and off	Non-return valve is not mounted on the discharge port. When the pump pumps water onto the level at which the float switches it off, the water inside the pipeline (hose) returns back to the pump well. When enough water flows in, the float switches off the pump. The cycle is continuously repeated	Mount a non-return valve on the discharge port, concurrently, enabling the water to flow back into the pump well.

The year of CE marking .....
(is filled out by the seller on the basis of the rated plate)