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BIOX

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IT - ISTRUZIONI ORIGINALI IN LINGUA ITALIANA

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SAFETY SYMBOLS

Notice for safety.

Please give particular care to following signs.



DANGER - ELECTRIC SHOCK RISK

Improper use may lead into electric shock.



DANGER

Improper use may lead into heavy risk for persons and things.



WARNING

Improper use may cause damage to pump or installation.

ATTENTION

Before installing the pump please carefully read this manual. Guarantee will not be activated in case of improper use.

CHAPTER 1 FEATURES

BIOX® range pumps are particularly suitable to remove dirty water with suspended solids.

BIOX® pumps are well sized and can be possibly utilized both in fixed or movable installations.

BIOX® pumps are used to transfer dirty water, waste water and sewage water.

Each pump is tested and packed very attentively. Please ensure pump has not been damaged during transport; if this occurs please phone the dealer, within 8 days from purchasing day.

CHAPTER 2 USE AND HIS LIMITATIONS



WARNING

Pump cannot be used to move inflammable or dangerous liquids.



WARNING

Ensure pump never runs dry.

- MAX. TEMP.OF LIQUID: 50 °C
continuous duty to motor completely submerged
- MAX. IMMERSION HEIGHT:
7 m with 10 mt. of power cord
- MAX. FREE PASSAGE: 40 mm
- MAX.ON/OFFCYCLES/HOUR:
30 equally spaced

TYPE	MIN. PRIMING LEVEL	MIN. DRAINAGE LEVEL	START LEVEL	STOP LEVEL	WEIGHT Kg.
PICTURE	A	B	C	D	-
BIOX® 200/8	123 mm	45 mm	370 mm	250 mm	8,5
BIOX® 300/10	123 mm	45 mm	400 mm	300 mm	9
BIOX® 400/12	123 mm	45 mm	400 mm	300 mm	10

Pump with less than 10 mt. supply cord cannot be used in open spaces.
The min. priming level refers to completely submerged outlet (See Pict. 1).

CHAPTER 3 INSTALLATION



DANGER - ELECTRIC SHOCK RISK

When installing, please ensure pump is disconnected from electric current network.

- Please use handlebar to remove or lift pump up
- Please use a non-return valve in case pump is connected to fixed installation with rigid piping; this will avoid liquid circulating when pump has been turned off; use of a pipe fitting will allow easy disconnection of pump for maintenance
- Dimensions of drain well must allow max. 30 on/off cycles/hour (See USE AND HIS LIMITATIONS)
- Please use flexible pipe connected to pump by means of plastic fitting in case of temporary use of pump
- Use a rope to immerse pump and fasten it to pump's handlebar
- BIOX® aut is equipped with a pre-rated float switch (See Pict. 1); please increase or decrease the free piece of float switch cable by making it sliding through the proper seat on the handlebar, when modifying the rating of float switch
- Pumps used besides or inside swimming pools, garden ponds or similar places may have special requirements



WARNING

Make sure that float switch turns off pump, when at min. level of liquid.



WARNING

Make sure no obstacles stand in the way of float switch, during up/down swinging.



DANGER

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

CHAPTER 4

ELECTRIC CONNECTION



WARNING

Ensure tension and frequency of pump (read motor plate) and supply network are same.



DANGER - ELECTRIC SHOCK RISK

Installer must make sure that electric current network has ground wire conforming to current laws.



DANGER - ELECTRIC SHOCK RISK

Make sure that electric current network is provided with a high-sensitivity circuit-breaker $\Delta=30$ mA (DIN VDE 0100T739).

SINGLE PHASE VERSION

Single phase pumps are equipped with double ground contact plug at top end of supply cord ; in this case grounding is done when plugging in.

THREE PHASE VERSION

In this case the ground wire (yellow-green cable) of supply cord must be connected to ground wire of electric current network. Ensure connection to electric current network by using an omnipolar-sectionned magneto thermic circuit-breaker. This will ensure effective disconnection from electric current network.

OVERLOAD PROTECTION

BLOX® range pumps have a built-in thermal overload with automatic reset. Further protections are not required. BLOX® range three phase pumps can be protected by using a magneto-thermic motor protector or a contactor with thermal relay; in both cases they have to be rated conforming to nominal power showed on motor plate. Eventual electric float switch must be connected to auxiliary connector buckles.

ROTATION DIRECTION TESTING THREE PHASE PUMPS

Water head and delivery are terribly effected by wrong rotation of shaft of pump motor. Clock wise rotation is correct (upside view of pump). When startin the pump motor will ungergo an anti-clock wise back-kick. In this case test is positive; on contrary case, please disconnect pump from network and inverse two phases.

CONNECTIONS DIAGRAM (See diagrams Pict.2) :

A. Single phase manual pump	B. Single phase automatic pump	C. Three phase pump
1. START (green)	5. SUPPLY CORD	9. WHITE
2. RUN (red)	6. GROMMET	10. LIGHT BLUE <LINE>
3. COMMON (black)	7. PLUG	11. BROWN <LINE>
4. CAPACITOR	8. YELLOW-GREEN	12. FLOAT SWITCH

CHAPTER 5

MAINTENANCE AND TROUBLESHOOTING


DANGER - ELECTRIC SHOCK RISK

Before doing any operation, make sure pump is disconnected from electric current network.


DANGER - ELECTRIC SHOCK RISK

Power cord must be replaced by manufacturer or by Customer service, using special tools.

No maintenance is required when BIOX® range pumps operate in normal conditions.
Occasionally maintenance of liquid ends and replacement of impeller may be required.

FAULT	POSSIBLE CAUSE	REMEDY
PUMP DOES NOT DELIVER, MOTOR DOES NOT RUN	1) No electric current supplying.	-
	2) Incorrect plugging in .	Verify presence of electric current supply and plug in.
	3) Circuit-breaker come into operation.	Reinforce circuit-breaker. Please call electrician in case circuit-breaker comes again into operation.
	4) Impeller blocked.	Remove obstacle.
	5) Motor or capacitor damaged.	Call dealer.
PUMP DOES NOT DELIVER, MOTOR RUNS	1) Filter obstructed.	Clean filter.
	2) Non return valve blocked.	Clean or replace valve.
PUMP DELIVERS REDUCED WATER	1) Filter partially obstructed .	Clean filter.
	2) Delivery pipe partially obstructed.	Remove obstacles.
	3) Impeller worn off.	Replace impeller.
	4) Anticlockwise rotation (three phase version).	Inverse two phases.
INTERMITTENT WORKING	1) Solids obstruct impeller.	Remove obstacles.
	2) Too warm liquid.	-
	3) Motor broken.	Call dealer.