

User Manual

PERIPHERAL PUMP

DL-WZB370-E1 DL-WZB750-E1



CATALOGUE

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Thank you for choosing our company's products, please read this manual carefully and 3 NOTICES ON INSTALLATION AND APPLICATION

Don't make the electric nump run dry.

Before operation, make sure that the electric pump is properly grounded. Don't touch the electric pump while it is running.

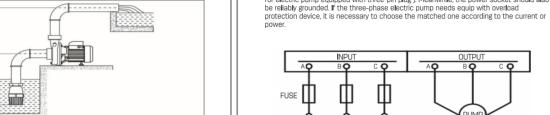
1 PORDLICTS OVERVIEW

Clean Water Pumps (hereafter referred to as simply "electric nump") include peripheral pumps centrifugal pumps and jet pumps. The electric pump is made up of motor, pump body and seal. All motor adopts asynchronous one. Incorporating vortex impeller, the peripheral pumps enjoy high head, and some models have capable of self-priming. Some peripheral pumps are equipped with automatic control system which means the electric pump can pump water when the taps at outlet are open whereas stop work when all tans close. Thus this model can work automatically without switching power off by manual, Centrifugal pumps are characterized by large outflow, stable operation and low noise. Jet pumps adopt unique structure and have function of self-priming. All this kind of electric nump can be equipped with pressure.

2 CONDITIONS FOR USE

The electric pumps shall keep normal and continuous working under the following

- 1).Maximum ambient temperature: +45°C.
- 2).Maximum medium temperature: +40°C.
- 3) Medium pH value: 65-85 4) Maximum volumetric ratio of solid impurities content in the medium: 0.1% Maximum
- size of solid particle: 0.2mm
- 5). Power voltage and power frequency must be in accordance with the nominal values indicated on the name plate.



Drawing of Installation

- 1) Check the electric nump includes the cable terminal or plug (if equipped) before the installation to see whether there is any damage in transit or storage. Check whether the cold insulation resistance exceeds 50MO
- whether three-phase electric nump rotational direction is correct. As viewed from the side of fan. clock wise rotation indicates electric pump rotational direction is correct. If its rotational direction is wrong firstly cutoff the power immediately, then swap over any two of the three-phases of the electric pump.
- 5). Fix the outlet pipe securely in order to prevent water from splashing the motor that
- 6). Set brackets to support the intake pipe and outlet pipe and these pipes shall not depend solely on the numb hody for support
- pressure control device shall be fitted on the outlet pipe. 8). On use of electric pump, neither place it horizontally in water nor put it submerged water in order to prevent the motor from rain or spraying, nor shall it be sprayed by a powerful jet of water in order to avoid destroying winding insulation due to moisture by

Wiring Diagram of Protection Device

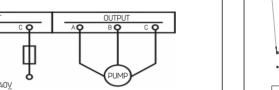
Fix the electric pump properly when installation. Use steel or hose to connect the foo valve (if equipped) and electric nump inlet. Do not allow to use soft hose to avoid being flat. For self-priming pump, it only needs fill up with water in the housing of pump instead of full of water in the intake pipe. In order to keep pump reliable operation, the strainer shall be installed availably and make sure the foot valve and strainer to be installed at least 30cm above the water bottom to avoid foreign matters (i.e. sand & mud) being sucked into electric pump chamber resulting in operation failure(See Drawing of Installation). Make sure that foot valve at intake pipe and the one end of strainer are submerged in water after completing connection between the upper end of intake pipe electric pump are forbidden. and the inlet end of electric pump. The pipeline shall be shortened as much as possible and avoid too many joints. Besides, the suction height shall not exceed value of 4.MAINTENANCE

3). Move the fan blade by screw driver, check whether electric pump rotates freely and

4). Make sure the intake pipe and its joint are sealed completely to avoid air leakage may lead to electric leakage.

7). If user wants to change the electric pump into automatic control mode, the proper

9) Creenage protection device shall be installed correctly and ensure it is reliably the nineline and drain off the residual water then rinse the main components for rust-proof treatment, finally, keep it in the dry and well-ventilated place and store it grounded at the position of grounding mark of the electric pump or of the cable (except for electric nump equipped with three-nin plug). Meanwhile, the power socket should also



10). For peripheral pumps, they should not reach the maximum head when in use to avoid

11). For centrifugal impeller pumps, they should be used in range of the prescribed head (except for electric pump with full head coverage) to prevent them from damage due to GB CONNECTING PIECE RINGRRA GB CONNECTING PIECE RINGRRA

12) Check the water level to see whether it is lowering and do not allow to let the foot Rolling bearings 6202 GB 276-9 valve or the lower end of intake nine out of water

13). During the operation, if user wants to adjust the electric pump position or touch it. firstly cut off the power supply to avoid accident.

14). In order to avoid accidents, swimming, washing, herding nearby the working space of

1). Regulary check the insulation resistance between the electric pump winding and motor casing The cold insulation resistance shall not be lower than 50M. Otherwise. corresponding measures shall be taken. The electric pump could not be reused until it meets the operation requirement.

2). The maintenance job should be taken according to the next steps:Dismantlement Check various vulnerable components including roller bearings, mechanical seal impeller, foot valve, etc. Replace them timely if damage is found. Air tightness test: Conduct hydraulic (or pneumatic) pressure test for components used to pass flow through their passages according to maximum hydraulic (or pneumatic) actuating pressure after disassembling pump for repair or replacing various airtight packing. The test should last for 5 minutes. If no leakage or sweat occur during the time, pass the test. 3). Drain off residual water inside pump when ambient temperature is lower than 4°C to avoid crack occurrence for pump body due to frost.

4). If the electric pump is to remain unused for a long period of time, firstly disassemble

5 ILLUSTRATIONS ON INSTALLATION AND MAINTENANCE

21 31 30 2 15 22 3 1 4 18 16 19 20 6 24 29 28 17 32 14 33 5 23 11 12

GR FASTENER BOLT HHRCM5X40-N

GB FASTENER BOLT STBAB AM5×20-N

GB_FASTENER_BOLT_STBAB AM5×16N

GB CONNECTING PIECE KEYS

GR CROSS SCREWS TYPES

GR CROSS SCREWS TYPES

B18.67M-M4x07×30TypeCross Recessed PHMS--30

1) Figure A: The electric numps must be installed in a dry well-ventilated place with an ambient temperature of no more than 45°C. Fix the nump in place on a solid flat surface using suitable bolts to avoid vibration. 2) Figure B: The intake pine must be slightly angled up towards the intake mouth to avoid the formation of air locks 3) Figure.C: The pipes must always be fitted using the related brackets to avoid

transmitting stress to the pump body. 4)Figure.D: The specifications on the electric pump name plate and rated line values are

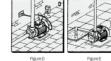
5) Figure F: Check that three-phase electric numbs rotate clockwise when looking at the pump from motor fan side, swapping over two of the phase connections if they do not. 6)Figure, F. Fill the electric pump completely with clean water before switching it on. The

7) Figure, G: When there is risk of freezing, empty the electric pump through the drain plug on the bottom of pump body, making sure you prime it when subsequently starting it again; check that the foot valve is clean at regular intervals; if the electric pump is to remain unused for a long period of time(e.g. in the winter) it is advisable to empty it completely, rinse it with clean water and store it in a dry place.

8) Figure, H: If the shaft does not turn freely, release it using a screwdriver inserting in the special slot. If this is not sufficient to solve the problem, remove the pump body, undoing the relevant mounting bolts, and clean it thoroughly to remove any encrustation.









water should be poured in through the priming plug

MALFUNCTION MAIN REASONS

6 TROUBLESHOOTING

1.Low power voltage. 1.Adjust voltage into 0.9-11 times of 2.Lost phase or cable broken . the rated value. 3.Impeller clogged. Check switch terminal and cab Flectric numn starts 4.Excessive cable voltage-drop 3.Correct clogged position or clear f the foreign matters. 5 Canacitor damaged 6.Stator winding burnt. 4.Thicken cable property. 5.Replace capacitor. 1.Air reside in pump chamber. 1.Prime enough water into pump 2.Air leakage occur inside intake chamber to exhaust air. 2 Check joints pines etc properly Water priming 3.Foot valve not opened or clogged to ensure seal properly. severely, large resistance occur 3.Check foot valve, remove inside pipe, high suction height. obstruction shorten intake pipe reduce the suction height. 4.Air leakage for airtight packing occur inside pump 4,Adjust or replace airtight packing Excessive long pipe or excessive 1.Cut pipe down, or adjust head in high head or pipe bent severely. the range of rated value or make 2.Foot valve, strainer or impeller nineline hending to be flat 2.Clean off obstruction 3.Impeller worn out severely. 3.Replace impeller. 1. Switch broken off or fuse burnt . 1.Check whether head or power 2.Impeller clogged. voltage conform to requirements. Electric pump stops 3. Stator winding burnt out not, adjust accordingly. operation suddenly 2.Remove foreign matters. 3.Rewinding and overhaul. Excessive low power voltage. Rewinding according to original 2.Winding short-circuit due to water | technical requirement after left in motor. dismantlement, then, soak and dry Stator winding burnt 3.Impeller clogged. the electric pump in the insulating 4.Electric pump starts frequently. lacquer or send it to the service 5.Electric pump overload. agency for repair.

6.Phase lost for three-phase elect

Product Warranty Card

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Vear/Month/Day)	· · · · · —				

If the failure happen in normal use, our company will provide free

warranty, parts replacement and other services according to the

2. This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor

3.In one of the following cases, free warranty service will be invalid. and maintenance fees will be required:

- (1) Exceed the expiration date.
- (2) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage
- (3) Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company
- (4) Machine breakdown or damage caused by force majeure: (5) Consumable accessories.

This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

Purchase Date: _____ (Year/Month/Day)

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Inspector

Date of manufacture.

Date: December, 2023