OWNER'S MANUAL

Assembly & Operating Instructions

PAICHI

BOREFLOW 6000

WPE-BF-6000



N23701 CE

BIGGER BOYZ TOYZ

Thank you for choosing our equipment. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual before operating the equipment. It instructs you on how to set up, operate, and maintain your equipment safely and easily. Ensure that you and any other persons operating the equipment carefully follow the recommended safety practices at all times, as failure to do so could result in personal injury or property damage.

All information in this manual is relevant to the most recent product information available at the time of printing. Review this manual frequently to familiarise yourself with the equipment, its features, and operation. Please note that this Owner's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs, and equipment without notice and without incurring obligation.

All the power testing information used to establish the power rating of the engine equipped on this equipment can be found in the engine manufacturer's manual or website. If you encounter any problems or have questions about the equipment, please contact our Customer Support Department.

Throughout this manual, all references to the right and left side of the equipment are observed from the operating position. The engine manufacturer is responsible for all engine-related issues concerning performance, power-rating, specifications, warranty, and service. Refer to the engine manufacturer's Owner's Manual, packed separately with your equipment, for more information.

Customer Support

Before initiating a product return, kindly reach out to our dedicated Customer Support Department at Bigger Boyz Toyz. We are here to assist you.

Phone: 02 4257 4787
Email: bbt@bbta.com.au
Warehouse: Unit 2/3 Delta Place, Albion Park Rail NSW 2527

If you have difficulty assembling the product or have any questions about the controls, operations, or maintenance of the equipment, please don't hesitate to get in touch with our Customer Support Department.

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Always disconnect the appliance from the supply before assembling, disassembling or cleaning.
Appliances can be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved.
Children shall not play with the appliance.
Pumps without indication that they are protected against the effect of freezing shall not be left outside during freezing weather conditions

Attention!
If the appliance or the supply cord is damaged, it must be repaired by manufacturer, its service agent or qualified person.



Meaning of crossed –out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact you local government for information regarding the collection systems available.

BEFORE INSTALLING PUMP, BE SURE TO READ THIS OWNER'S MANUAL CAREFULLY.
REFER TO PRODUCT DATA PLATE(S) FOR ADDITIONAL PERATING INSTRUCTIONS AND SPECIFICATIOONS

⚠ CAUTION

- Keep work area clean, well-lit and uncluttered.
- Keep safety labels clean and in good condition.
- Wear safety glasses while installing or performing maintenance on pump.
- Most water system problems result from improper installation. It is suggested that you read this manual carefully before installing your pump.
- Check and make available all the tools you will need to install your pump. Required tooling may include wrenches, pipe sealant, pipe fittings and nipples, screwdriver, etc. Be sure to have available proper and adequate wiring material to complete the installation correctly.

READ AND FOLLOW SAFETY INSTRUCTIONSS

This is the safety alert symbol. When you see this symbol on your pump or in the manual, look for one of the following signal words and be alert to the potential for personal injury:

⚠ DANGER warns about hazards that will cause serious personal injury, death or major property damage if ignored.

⚠ WARNING warns about hazards that can cause serious personal injury, death or major property damage if ignored.

⚠ CAUTION warns about hazards that will or can cause minor personal injury or major property damage if ignored.

The label NOTICE indicates special instructions, which are important but not related to hazards.

Carefully read and follow all safety instructions in this manual and on pump.

Keep safety labels in good condition.
Replace missing or damaged safety labels.





⚠ WARNING HAZARDOUS PRESSURE. Do not run pump against closed discharge. Release all system pressure before working on any component. Under certain conditions, submersible pumps can develop extremely high pressure. Install a pressure relief valve, which is capable of draining the pumps max output at the relief valves rated pressure.

Do not run pump dry. Pump must be fully submersed in watter prior to starting. If run without water, the pump and motor will be damaged.

Electrical Safety

⚠ CAUTION Make sure all ELECTRICAL POWER IS OFF before connecting any electrical wires.

⚠ WARNING



Hazardous voltage. Can shock, burn, or cause death.

Ground pump before connecting to power supply. Disconnect power before working on pump, motor or tank

⚠ Wire motor for correct voltage. See "Electrical Installation" section of this manual and motor nameplate. The LDW-Series is available to operate on either 230V or 115V input power. Check product nameplate to determine correct input voltage.

⚠ Ground motor before connecting to power supply. Pump is supplied with a copper ground wire. Use only copper wire for pump connection.

⚠ DO NOT GROUND PUMP TO A GAS SUPPLY LINE.

⚠ Meet National Electrical Code (NEC). Follow all pump wiring instructions

⚠ provided in this manual.

⚠ WARNING

SERIOUS OR FATAL ELECTRICAL SHOCK MAY RESULTFROM FAILURE TO CONNECT THE INLINE SYSTEM, METAL PLUMBING, AND ALL OTHER METAL NEAR THE LDW-SERIES SYSTEM OR CABLE, TO THE POWER SUPPLY GROUND TERMINAL USINGWIRE NO SMALLER THAN MOTOR CABLE WIRES. TO REDUCE RSK OF ELECTRICAL SHOCK, DISCONNECT POWER BEFORE WVORKING ON OR AROUND THE WATER SYSTEM. DO NOT UUSE LDW-SERIES SYSTEM IN SWIMMING AREAS.

General Safety

LDW-Series cistern pumping system is designed and approved for use in effluent pumping applications.
Do not allow pump or any system plumbing to freeze. To do so will void the warranty.

This pump has been evaluated for pumping water only. Pumpping liquids other than water may void warranty. Periodically inspect pump and system components.

LDW-Series KEY FEATURES

Pump Features:

- Automatic ON/OFF
- Dry running protection
- Available in both 115V and 230V options
- Pump housing made of rust-proof high-grade steel
- Integrated non-return valve
- Motor protected thermally by a built in overload
- High-quality mechanical seal for a long service life
- Removable 5" base for secure and reliable mounting

INSPECT YOUR SHIPMENT

LDW-Series are carefully tested, inspected, andpackaged t。insure their arrival in perfect condition. When the pumpis received, examine it closely to make sure there is no damage that may have occurred in shipping. If damage is evident, report this immediately to your shipping carrier and product dealer. The shipping carrier assumes full responsibility for the shipment's safe arrival. Any claim for damage to the shipment, either visible or concealed, must be made through the shipping carrier first.

INSTALLATION

Location Of The LDW-Series Pump

The LDW-Series is designed to be installed in a cistern clean watter /deep wells(Max. submersion depth 19m).
The pump should be protected to prevent possible freezing

If a sewage tank is near or a part of the system where the LDW-Series pump is installed, proper ventilation is required to meet all local and national codes.

NOTICE: READ AND FOLLOW ALL INSTRUCTIONIS!

Disconnect power at electrical panel before making any electrical connections.

Adhere to the guidelines of national, state and local plumbing codes when installing this product. Check with the appropriate agencies or water systems professional for additional information.

Supply voltage must be +/- 10% of motor nameplate voltage. Low or high voltage can damage the motor and will void the warranty.

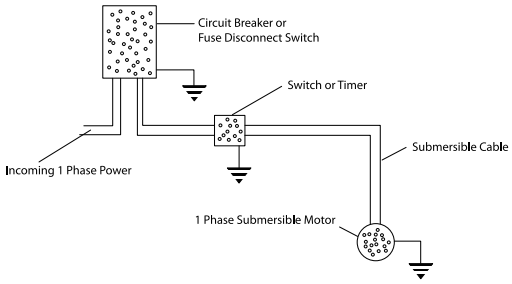
If possible, connect pump to dedicated branch circuit with no other appliances on it.

Do not operate pump unless pump is grounded.

Solder and tape all spliced connections carefully. A fused disconnect switch or circuit breaker should be placed at or near the pump.

ELECTRICAL INSTALLATION

1. All wiring must be done in accordance with applicable nationpal and local electrical codes.
2. Disconnect electrical power at the main breaker.
3. Check that the power supply corresponds with the electrical rating of the submersible motor.
4. Every installation requires a fused disconnect switch or circuit breaker.
5. Every installation must be grounded. There must be a reliable ground connection between the pump and the distribution panel. The motor lead incorporates a green grounding conductor.
6. LDW-Series has two power supply wires and one ground wire, and does not require a motor control box, since all electrical components are built inside the motor.
7. Use an ohmmeter to make continuity and insulation checks after the installation is completed.



Plumbing, Piping, And Hoses

In general, keep the discharge line as large as possible. Avoid using bends, elbows and fittings whenever possible. All discharge connections must be airtight, the use of pipe compound/or Teflon tape is recommended for all threaded joints.

Water Supply Requirement

The LDW-Series is designed to be installed in a cistern clean water/deep wells(Max. submersion depth 19m). The unit should be kept completely full of water at all times.The system should not be run dry, without water, for even short periods of time, as this will cause damage to the pump and the pumping system.

Horizontal Offset Suction Piping

When the pump is offset a long distance from the end point off fluid discharge, the horizontal offset suction piping may have too be increased in diameter to reduce friction loss. The friction loss in a system increases:
1. As the flow rate increases.
2. As the piping size decreases.

PUMP INSTALLATION PROCEDURE

1. Disconnect electrical power at the main breaker.
2. A qualified professional installer should be used to install the pump system and any associated control devices.
3. Pump is not to be installed in a hazardous environment.
4. LDW-Series pumps are designed for permanent installations only All power connections should use approved connection box strain reliefs to ensure that undue stress is not put upon the units power cord.
5. The products electrical lead/cord is not intended to be used to transport or install the unit. If the unit must be lowered into its place of operation,do so by way of threading a fixed pipe into the pumps discharge. DO NOT lower the unit by the factory installed electrical cord.
6. To facilitate priming and starting of the pump,it is recommended that a valve be placed in the discharge plumbing. This valve is critical if the unit will be operated on a regular basis at near maximum discharge. To use the valve to assist in the pumps priming and start up,first close the valve completely. Fill the pump and plumbing completely with water. Next, crack the valve open to allow any air in the system to bleed off once the system is turned on. Start the pump. As water begins to flow,slowly open the valve the rest of the way until the desired flow rate is achieved.

OPERATION

Priming

Never run the pump dry. To prime, fully submerse the pump and its discharge connection under water prior to starting the pump's motor.

WARNING **HAZARDOUS PRESSURE: Do not run pumps against a closed discharge, or at a system operating pressure above what is mentioned by the pump manufacturer.**

Starting

Close aii system outiets, then slightiy crack one system outiet to allow excess air to bleed out of the system. Start the pump. Immediately upon starting, slowly begin opening the discharge valve until half open. If after a few minutes of running you do noot get water, repeat priming process (the pump may be locked by excess air that is trapped in the unit). Once the pump is operatin99 fully open the discharge valve and a system o utlet, letting the pump operate until the water is running clear. No further priming should be needed unless the pump is drained or there is a leak in the suction plumbing.

Process To Ensure Pump Is Receiving Enough Water To Meet Demand

1.Install a shut-off valve in the plumbing near the discharge of the pump.

2.Close the valve, but make sure that the supply water is allowed to freely flow into the pump without restriction.

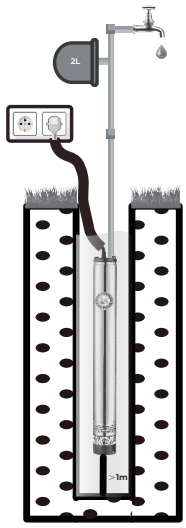
3.Turn on the pump, and begin opening the discharge's shut-off valve.

4.Continue opening the discharge valve until a very distinct noise is heard coming from the pump. This noise is called Cavitation (which can destroy the pump over time), and will sound like there is gravel inside the pump. STOP opening the discharge valve once cavitation is heard.

5.Slowly close the discharge valve until the cavitation is no longer heard.

6.The pump is now adjusted so that the system demand will not exceed what can be supplied.

To ensure that the system is never run dry, it may be necessary to set up a float switch system. The float switch should be adjusted to allow the pump to remove the most water possible, but not so much that the water level goes below the pumps suction screen. If the water goes below the suction screen,air will be drawn into the pump. Pumping air for an extended period of time could damage or destroy the pumping system



Warm Reminder

In order to prevent sand from entering the water pump and causing it to clog, the water pump should be at least 1m away from the bottom of the well

In order to operate correctly to avoid frequent restarts and achieve greater energy savings, it is necessary to install a gas tank with a minimum capacity of 2 liters and an initial load of 2 bar.

Lubrication

The pump requires only water for lubrication and must never be run dry.

WARNING Before disconnecting pump, be sure fuse box leads are disconnected or power is turned off. After reassembling the pump, refer to priming instructions before running.

WARNING This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.

pumps for outdoor fountains, garden ponds and similar places have to be supplied through a RCD (operating current < 30 mA) (IEC 60335-2-41).

Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

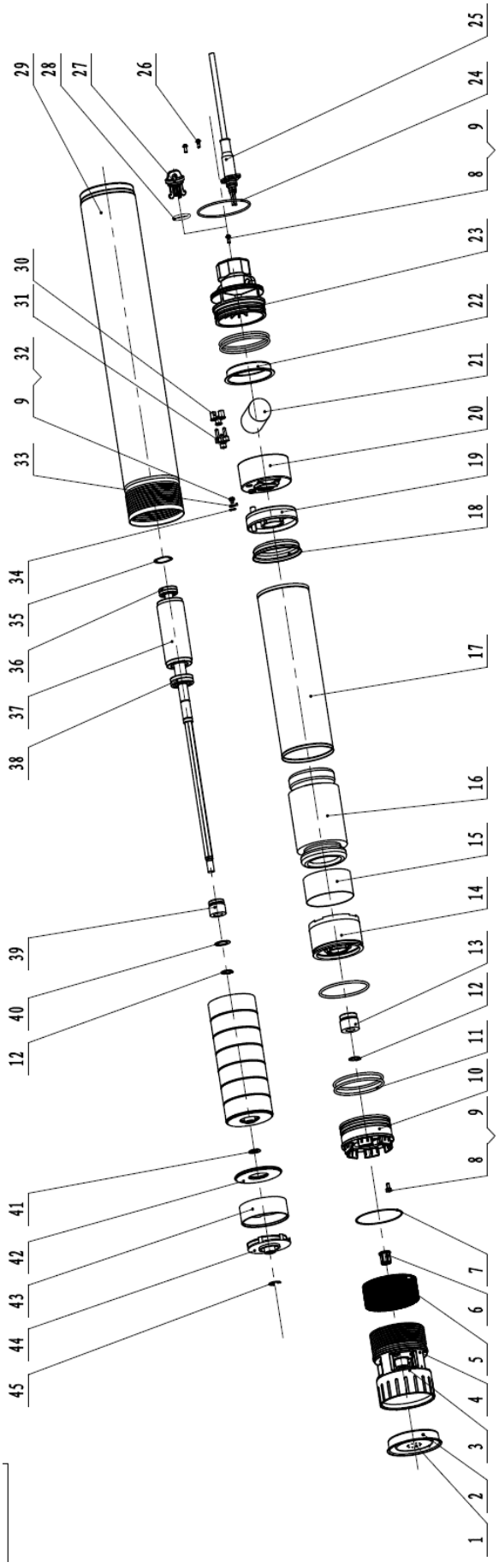
Replacement cord instructions, type Y attachment.

Instructions for fixed appliances stating how the appliance is to be fixed.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
pollution of the liquid could occur due to leakage of lubricants

Meaning of crossed-out wheeled dustbin:
Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
Contact you local government for information regarding the collection systems available.
If electrical appliances are disposed of in landfills or dumps hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

PARTS LIST



NO	PART	MATERIAL
1	Stainless steel base	304
2	Screw	304
3	Pump base	PPO-GF30
4	Screw	304
5	Filter screen	304
6	rubber bearing	NBR
7	Washer	304
8	O-ring	NBR
9	Screw	A2-50
10	Oil cylinder cover	PPO-GF30
11	O-ring	NBR
12	Circlip	304
13	Mechanical seal	
14	0il cylinder	ADC12
15	Insulating paper	FDMD6641
16	Motor	
17	Motor base	304
18	Top dead ring	PA6
19	Upper cover	ADC12
20	Capacitor box	PP (V0)
21	Capacitor	
22	Cap of capacitor box	PP (VO)
23	Delivery door	PPO-GF30
24	O-ring	NBR
25	Plug cord	
26	Screw	A2-50
27	Check valve	POM
28	O-ring	NBR
29	Pump housing	304
30	Flame-proof block	
31	Terminal	
32	Spring washer	65Mn
33	Cold terminal	H65Y
34	Serrated washer	65Mn
35	Wave spring	65Mn
36	Bearing	
37	Rotor	
38	Bearing	
39	Mechanical seal	
40	Washer	304
41	washer	NBR
42	Pump cover	
43	Guide vane	
44	Impeller	POM-GF25
45	Circlip	304

WARRANTY

This product comes with a 2-year parts warranty for all items used for domestic purposes from the date of purchase. For products used for commercial purposes, the warranty period is 3 months.

Warranty coverage does not include damage caused by normal wear and tear, accidents, misuse, lack of maintenance, neglect, natural disasters, or other external causes. Additionally, damage caused by operating the equipment in a manner outside the described instructions will not be covered. The warranty is considered void if the item has been modified, altered, or tampered with by a person, excluding standard periodic maintenance.

The warranty does not cover consumables such as tyres, blades, belts, brakes, chains, clutches, bearings, and pull starts.

Misuse or Abuse: We do not offer a warranty on items damaged due to misuse, abuse, or infrequent servicing. No refund or exchange will be provided in such instances. Please check each item description for further warranty details, as some specific components of power equipment are not covered. Warranties do not cover issues arising from lack of oil in engines or improper oil-fuel mixtures where required

Australian Consumer Law: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if they fail to be of acceptable quality and the failure does not amount to a major failure.

Customer Support

For further assistance, kindly reach out to our dedicated Customer Support Department at Bigger Boyz Toyz. We are here to assist you.

Phone: 02 4257 4787
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