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knitting machine 3SYDC12V/S-30

knitting machine 3SYDC12V/S-30 Solar Submersible Water Pump User Manual

Model: 3SYDC12V/S-30

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your knitting machine 3SYDC12V/S-30 Solar Submersible Water Pump. Please read these instructions carefully before installation, operation, or maintenance to ensure proper function and longevity of the product. Retain this manual for future reference.

PRODUCT OVERVIEW

The knitting machine 3SYDC12V/S-30 is a high-efficiency solar-powered submersible water pump designed for various applications including agricultural irrigation, fish ponds, and general water transfer. It features a stainless steel shell, pure copper motor, and a built-in controller for direct solar panel connection.



Figure 2: Visual representation of the pump's key attributes, highlighting its robust construction and operational benefits.

SPECIFICATIONS

Parameter	Value
Model	3SYDC12V/S-30
Item Type	Solar Water Pump
Material	Stainless Steel, Pure Copper
Working Current	10A
Maximum Lift	Approx. 30 meters / 32.8yd
Maximum Flow Rate	1.5 Cubic Meters/Hour
Working Voltage	DC12V
Outer Diameter of Interface	25mm (Accessory Connector Diameter)
Cable Length	Approx. 14 meters / 15.3yd
Delivery Medium	Clean Water
Impeller Suction Method	Single Suction
Pump Shaft Position	Side Vertical
Drive Mode	Electric
Item Weight	4.07 kg
Power Source	Solar Powered

PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- 1 x Solar Water Pump (Model: 3SYDC12V/S-30)
- 1 x Connector
- 1 x Connector Gasket
- 1 x User Manual (This document)

SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Power Supply:** Always ensure the power supply voltage matches the pump's specified working voltage (DC12V) before connection.
- **Water Source:** If the water source contains debris, place the pump inside a protective bamboo basket or similar filter to prevent clogging and damage to the pump.
- **Handling:** Always hoist the pump using a rope attached to its handle. **Never pull the pump by its electrical cable,**

as this can damage the wiring and create a safety hazard.

- **Dry Running:** Do not run the pump dry. Operating the pump without water can cause severe damage to the internal components.
- **Electrical Connections:** All electrical connections should be secure and protected from water ingress. If unsure, consult a qualified electrician.

SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Follow these steps carefully.

1. Site Selection:

Choose a location for the solar panels that receives maximum direct sunlight throughout the day. The pump should be placed in the water source, ensuring it is fully submerged but not resting directly on the bottom if there is sediment.

2. Connecting the Pump:

1. Attach the provided connector and connector gasket to the pump's outlet. Ensure a tight, leak-free seal.
2. Connect the discharge hose (not included) to the pump's outlet.
3. Carefully lower the pump into the water source using a strong rope attached to the pump's handle. Ensure the pump is fully submerged.

3. Electrical Connection (Solar Panels):

The pump has a built-in controller, allowing direct connection to solar panels. Ensure the solar panels provide a stable DC12V output.

- Connect the positive (+) wire from the solar panel to the positive terminal on the pump's cable.
- Connect the negative (-) wire from the solar panel to the negative terminal on the pump's cable.
- Verify all connections are secure and insulated to prevent short circuits or water damage.

All-brass core wire motor

Full of power



Figure 3: Illustrative diagram of a typical solar water pump system, demonstrating the connection between solar panels, controller, battery (optional), and the pump.

Note: While the pump can be directly connected to solar panels, for consistent operation, especially during varying sunlight conditions or for night-time use, integrating a solar charge controller and a 12V battery bank is recommended.

OPERATING INSTRUCTIONS

Once installed, operating the pump is straightforward.

1. **Initial Check:** Before activating, ensure the pump is fully submerged in water and all electrical connections are secure.
2. **Power On:** Connect the solar panels to the pump's cable. The pump will begin operating as soon as sufficient sunlight is available to power the solar panels.
3. **Monitoring:** Observe the water flow from the discharge hose. If no water flows or the flow is weak, check for blockages, proper submergence, and sufficient power input.

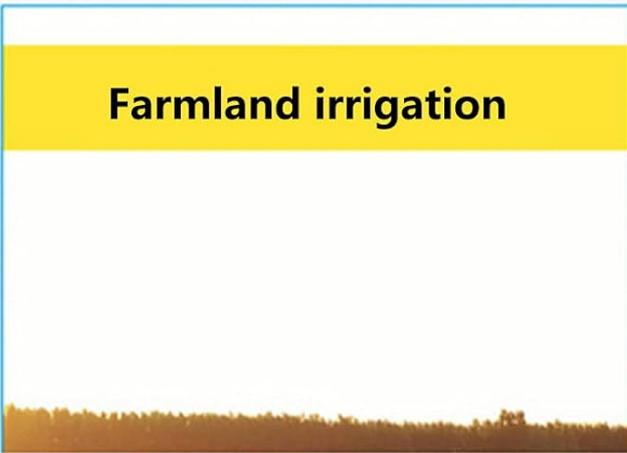
4. **Power Off:** Disconnect the solar panels from the pump to stop operation.

Applications:

- **Agricultural Irrigation:** Efficiently supply water to crops and fields.
- **Fish Ponds:** Maintain water levels or circulate water in fish ponds.
- **Fishing Boats:** For bilge pumping or water transfer on boats.
- **General Water Transfer:** Moving clean water from one location to another.

Stainless steel DC deep well pump

Farmland irrigation



Mining project



Figure 4: Examples of the pump's utility in agricultural irrigation and other industrial applications.

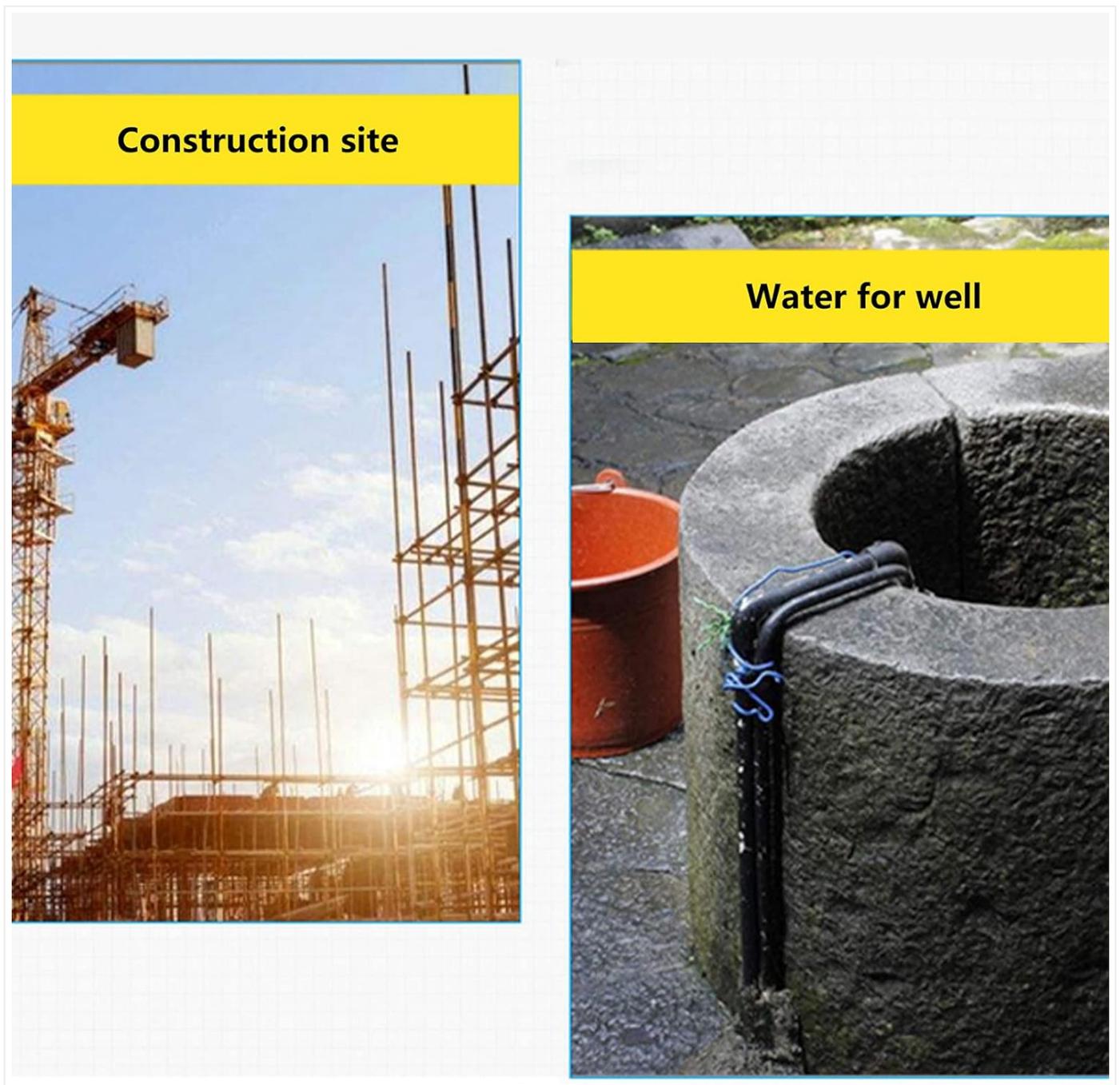


Figure 5: Further applications, illustrating the pump's use in construction environments and for drawing water from wells.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your pump.

- **Cleanliness:** Periodically inspect the pump for any accumulated debris, especially around the intake area. Clean as necessary.
- **Cable Inspection:** Regularly check the electrical cable for any signs of wear, cuts, or damage. Replace if necessary.
- **Storage:** If the pump is not in use for an extended period, clean it thoroughly, drain all water, and store it in a dry, protected area.
- **Winterization:** In freezing climates, remove the pump from the water source before temperatures drop below freezing to prevent ice damage.

TROUBLESHOOTING

This section addresses common issues you might encounter with your solar water pump.

Problem	Possible Cause	Solution
Pump does not start or runs intermittently.	Insufficient sunlight; faulty electrical connection; pump clogged; low voltage.	Ensure solar panels receive direct sunlight. Check all electrical connections for security. Inspect pump intake for debris and clean. Verify solar panel output voltage.
Low water flow or no water output.	Pump not fully submerged; clogged intake/outlet; air lock in hose; damaged impeller.	Ensure pump is fully submerged. Clean intake screen and outlet. Remove air from the discharge hose. Inspect impeller for damage (requires disassembly, consult professional).
Pump makes unusual noise.	Debris in pump; dry running; worn bearings.	Disconnect power and inspect for debris. Ensure pump is always submerged. If noise persists, professional inspection may be required.
Water leakage.	Loose connections; damaged gasket; cracked housing.	Tighten all connections. Replace connector gasket if damaged. If housing is cracked, the pump may need replacement.

DISPOSAL

When the pump reaches the end of its service life, do not dispose of it with general household waste. Please recycle electronic components responsibly according to local regulations. Contact your local waste management authority for information on proper disposal and recycling options.

CONTACT AND SUPPORT

For technical assistance, warranty claims, or further inquiries, please contact your retailer or the manufacturer directly. Please have your model number (3SYDC12V/S-30) and purchase date available when contacting support.

Manufacturer: knitting machine

Warranty information is typically provided at the point of purchase or within separate documentation. Please refer to your purchase receipt or product packaging for specific warranty terms and conditions.