

- Self-Priming, Quiet, Variable Speed Motor with Low Speed Options for Thorough Filtration, and Exclusive Self-Diagnostics.
- Consumer-Friendly Installation (1.5" and 2" ports included), with an easy to program touchpad for optimal speeds, and automatic smart dual voltage sensor (115V-230V).
- Permanent magnet technology increases pump efficiency, earning Energy Star Certification for reduced energy costs (qualifies for utility rebates in select states).
- WiFi Enabled: Connects to any Smartphone/Smart device.
- 5-Year Warranty Included.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your BLACK+DECKER Variable Speed Pool Pump. Ensure all local codes and ordinances are followed during installation.

2.1 Unboxing and Components

Upon unboxing, verify all components are present and in good condition. The package includes the pump unit, instruction manual, electrical cover, union fittings for 1.5" and 2" plumbing, pump basket, and pump lid.

Easy To Operate

Use the easy programming touch pad to individually customize the 4 speeds of this pump. Ranging from 350 RMPS to 3,450 RPMS



Image 2.1: The pump comes with union adapters for both 1.5" and 2" pipes, and an adjustable base.

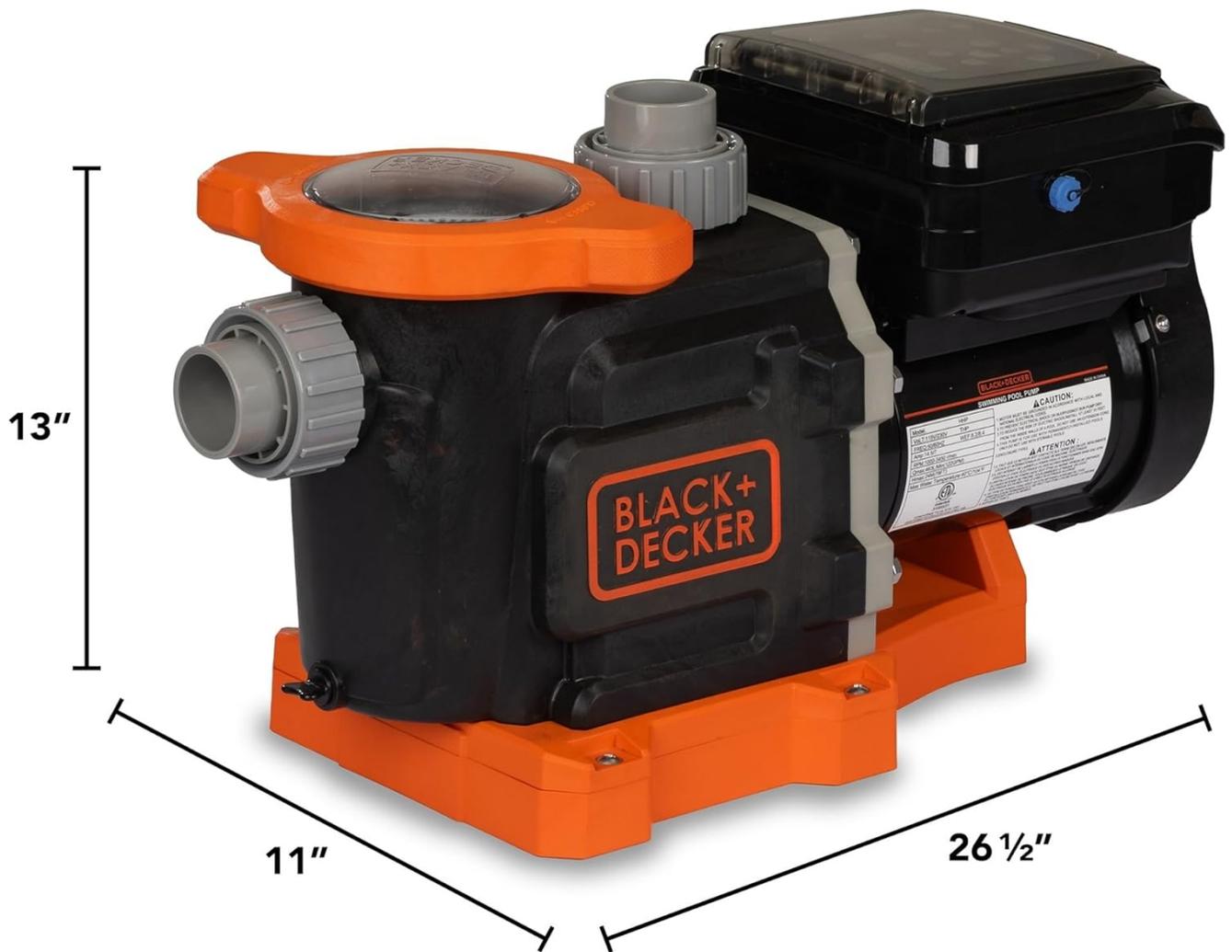


Image 2.2: Product dimensions are approximately 26.5" L x 11" W x 13" H. Ensure adequate space for installation.

2.2 Placement and Mounting

Place the pump on a level, stable surface. The adjustable base can be removed to anchor the pump directly to a concrete pad, reducing vibration and ensuring stability. Four screws secure the pump to its base, which can be removed for direct mounting.



Image 2.3: The pump should be installed on a stable, level surface near the pool equipment.

2.3 Plumbing Connections

The pump is equipped with both 1.5" and 2" union adapters to accommodate various plumbing sizes. The suction side of the pump is where water enters from the pool, passing through the pump basket. The discharge side is where filtered water returns to the pool. Ensure all connections are watertight to prevent leaks and maintain pump efficiency.

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Video 2.4: This video demonstrates the installation of universal adapters to fit various plumbing sizes, ensuring a secure connection to your pool system.

2.4 Electrical Connections

The pump supports dual voltage (115V/230V). Connect the supply wires to the electrical box located on the back of the motor. Ensure proper grounding and bonding to prevent stray voltage. The electrical box contains terminals for line 1, line 2, and ground connections. Always consult a qualified electrician if unsure about wiring procedures.



Image 2.5: The motor housing includes a protected electrical box for wiring connections and a control panel for operation.

Product Size:
11" x 26.5" x 13"

Horsepower Options:
1.5 HP, 2 HP, 3 HP

Voltage:
220 - 240 Volts

Port Size:
Both 1.5" and 2" Included

Flow Rate:
Adjustable from 350 - 3,450 RPMS

3. OPERATING INSTRUCTIONS

The BLACK+DECKER Variable Speed Pool Pump features an easy-to-use digital control panel for setting optimal speeds and schedules.

3.1 Control Panel Overview

The control panel allows you to adjust pump speed, set operating times, duration, and monitor wattage. It includes buttons for four preset speeds, manual/schedule mode selection, display options, quick clean function, and start/stop.

Key Features



- In Ground Pool Pump
- Self Priming
- 2 Horsepower, 220 - 240V
- Totally Enclosed Fan-Cooled (TEFC) permanent magnet motor for maximized reliability and longevity
- Programmable variable speed controls to efficiently tailor the flow to your pool's needs

Image 3.1: The easy programming touchpad allows for individual customization of 4 speeds, ranging from 350 RPM to 3,450 RPM.

3.2 Setting Speeds and Schedules

- **Speed Buttons (1-4):** Select desired running speed. The pump can operate between 350 RPM and 3450 RPM.
- **Manual/Schedule Mode:** Toggle between manual operation and programmed schedules.
- **Display:** Cycle through different display options such as current speed, time, duration, and wattage.
- **Quick Clean:** Activate a temporary high-speed cleaning cycle.
- **Start/Stop:** Initiate or halt pump operation.

Adjusting speeds allows for energy optimization. Run at lower RPMs during off-peak hours for filtration and higher RPMs for cleaning or when more circulation is needed.

4. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your pool pump.

4.1 Cleaning the Pump Basket

The pump basket collects debris before it enters the pump impeller. Regularly inspect and clean the basket to prevent clogs and maintain optimal water flow. To access the basket, simply twist the pump lid counter-clockwise to open, remove the basket, empty debris, and rinse. Reinsert the basket, ensuring it aligns with the grooves, and securely close the lid by twisting clockwise.

Your browser does not support the video tag.

Video 4.1: This video demonstrates how to easily clean the pump basket by removing the lid, emptying debris, and re-securing it.

4.2 Winterization

In regions with freezing temperatures, proper winterization is essential. The pump includes drain plugs on both the inlet and outlet sides. Remove these plugs to completely drain water from the pump, preventing freeze damage. Store the plugs in a safe place for reinstallation in the spring.

5. TROUBLESHOOTING

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

- **Pump Not Priming:** Ensure the pump basket is full of water before starting. Check for air leaks in the suction line or a clogged pump basket.
- **Reduced Flow:** Inspect the pump basket and skimmer baskets for debris. Check filter pressure and backwash if necessary. Verify all valves are fully open.
- **Unusual Noise/Vibration:** Ensure the pump is securely mounted to its base or pad. Check for debris in the impeller or a loose motor component.
- **Leaks:** Inspect all plumbing connections for tightness. Check O-rings on the pump lid and union adapters for proper seating and condition.
- **Electrical Issues:** Ensure the pump is receiving the correct voltage (115V or 230V). Check circuit breakers and electrical connections.

6. SPECIFICATIONS

Brand:	BLACK+DECKER
Model:	B09BBMK3VR
Horsepower:	1.5 HP
Voltage:	Dual Voltage (115V/230V)
Flow Rate:	Adjustable from 350 - 3,450 RPM (Max 80 Gallons Per Minute)
Product Dimensions:	26.5" L x 11" W x 13" H
Item Weight:	29 Pounds
Material:	Plastic
Certifications:	Energy Star Certified, ETL Listed (Conforms to UL STD. 1081, Certified to CSA STD. C22.2 NO. 108)

Our Pump



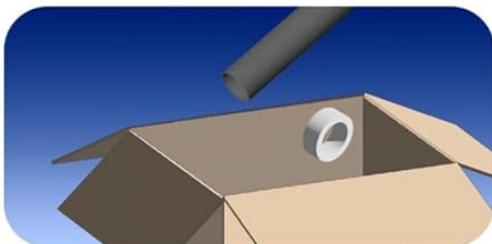
EnergyStar listed Variable Speed motor saves energy



Designed and engineered in the U.S. with U.S. based customer support

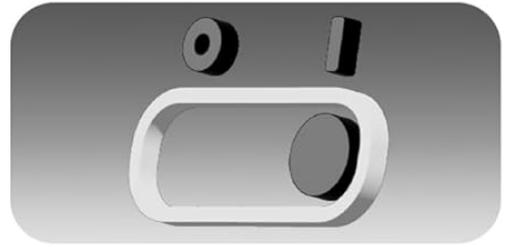


Easy to use digital controls



Replacement parts readily available

Their Pump



Single speed motor is less efficient



Not designed in the U.S. with hard to reach customer support



Difficult out dated controls



Replacement parts expensive with limited availability

Image 6.1: Detailed product specifications for a similar model (BDXBTV23825).

Product Specifications

Model: BDXBTV23825 HHP: 0.997/0.983
VoLT: 115V/230V THP: 1.50
FREQ: 50/60HZ WEF: 8.2/8.4
Amp: 14.5/7
RPM: 1000-3450 r/min
Qmax 463L/Min (122GPM)
Hmax: 24M (79FT)
Max Water Temperature: 40°C/104°F



Intertek
3189531

CONFORMS TO UL STD. 1081
CERTIFIED TO CSA STD. C22.2 NO. 108

Image 6.2: Detailed product specifications for a similar model (BDXBTV24333).

7. WARRANTY AND SUPPORT

The BLACK+DECKER 1.5 HP Variable Speed In Ground Pool Pump comes with a 5-Year Warranty. For technical support, troubleshooting assistance, or warranty claims, please contact BLACK+DECKER customer service. Refer to the contact information provided in the full instruction manual included with your product.