

ABNEMEN SAT20

ABNEMEN SAT20 Robotic Pool Cleaner Instruction Manual

Model: SAT20

1. INTRODUCTION

The ABNEMEN SAT20 Robotic Pool Cleaner is designed to provide efficient and hassle-free cleaning for your pool. This cordless unit features smart navigation, powerful suction, and a long-lasting battery to ensure a spotless pool floor and walls. It is suitable for both above-ground and in-ground pools up to 2000 sq. ft., offering multiple cleaning modes for comprehensive coverage.

2. SAFETY INFORMATION

Please read all safety instructions before operating the ABNEMEN SAT20 Robotic Pool Cleaner. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always ensure the cleaner is fully charged before use.
- Do not operate the cleaner when people or pets are in the pool.
- Keep the charging port dry and clean. Do not charge the unit near water.
- Only use the provided charger.
- Do not attempt to disassemble or repair the cleaner yourself. Contact customer support for assistance.
- Store the cleaner in a cool, dry place when not in use.

3. PRODUCT OVERVIEW

The ABNEMEN SAT20 is a compact and lightweight robotic pool cleaner designed for ease of use and effective cleaning. It features a robust motor, reinforced PVC brushes, and a large-capacity filter basket.



Figure 3.1: The ABNEMEN SAT20 Robotic Pool Cleaner demonstrating comprehensive cleaning modes for floors, walls, and slopes.

Strong Cleaning Power

The 180W powerful motor easily lifts debris stuck to the pool floor.



Figure 3.2: The cleaner's powerful 180W motor and 80GPH filtration capacity effectively remove various debris types.



Figure 3.3: Intelligent navigation ensures systematic cleaning paths for optimal pool coverage.

Ultra-long Battery Life

150 Mins
for Wall Mode

2100 Sq.Ft
Cleaning Area

180 Mins
for Auto Mode (Wall+Floor)

200 Mins
for Floor Mode

This data is obtained through multiple experiments.

Figure 3.4: The high-efficiency filter system traps debris like hair, branches, and algae.

Perfect for Above-Ground Pools



Area: Less than 1291 sq.ft.



Above Ground Pools

Not for Uneven & Obstructed Pools



Uneven pool bottom



Over the drain

Figure 3.5: The cleaner is ideal for above-ground pools but not recommended for uneven pool bottoms or areas with obstructions like drains.

Video 3.1: An overview of the ABNEMEN SAT20 Robotic Pool Cleaner, highlighting its cordless design, internal components, and ease of use.

4. SPECIFICATIONS

Feature	Specification
Model Name	SAT20
Brand	ABNEMEN
Power Source	Battery Powered (Cordless)

Battery Type	Lithium Ion (15 cells included)
Lithium Battery Energy Content	144.3 Watt Hours
Runtime	Up to 180 minutes
Coverage Area	Up to 2000 sq. ft.
Climbing Incline	Up to 45° (not suitable for stairs)
Filtration Capacity	80 GPH
Motor Power	180W
Filter Type	Top-loading, large-capacity filter basket
Product Dimensions	14 x 13 x 9 inches
Item Weight	19.11 pounds
Assembly Required	No

5. SETUP

5.1 Charging the Cleaner

Before first use, fully charge the robotic pool cleaner. The charging port is located under a protective cover on the top of the unit. A full charge typically takes approximately 3 hours. LED indicators will show the charging status.

5.2 Initial Placement in the Pool

Once charged, select your desired cleaning mode (see Section 6) and gently lower the cleaner into the pool. Ensure it sinks to the bottom. The cleaner will begin its cleaning cycle automatically.

6. OPERATING INSTRUCTIONS

The ABNEMEN SAT20 features a simple control panel for selecting cleaning modes. It is designed for plug-and-play operation without the need for a smartphone app.

6.1 Cleaning Modes

The cleaner offers three distinct cleaning modes:

- **Wall Only:** Focuses solely on cleaning the pool walls.
- **Floor Only:** Concentrates on cleaning the pool floor.
- **Wall & Floor (Auto Mode):** Provides comprehensive cleaning of both the pool walls and floor.

To select a mode, press the power button on the top of the unit. The corresponding LED indicator will illuminate. Press the button repeatedly to cycle through the modes.

Up to 2100 Sq.Ft with ANY Shape



Figure 6.1: Battery runtime varies by selected cleaning mode, offering up to 180 minutes in Auto Mode.

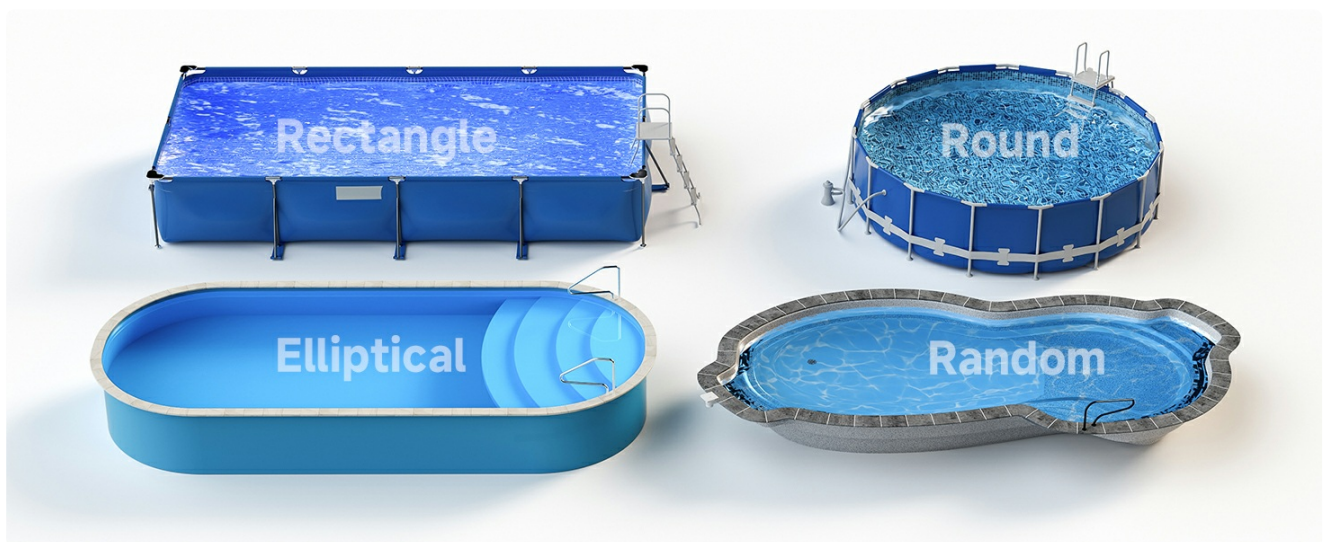


Figure 6.2: The cleaner is effective on various pool surfaces and shapes, handling diverse debris.

6.2 Smart Docking & Retrieval

When the battery is low, the cleaner will automatically return to the edge of the pool for easy retrieval. Use the provided retrieval hook to safely lift the cleaner out of the water. Allow excess water to drain before removing it completely.

Video 6.1: Demonstration of the ABNEMEN SAT20 Robotic Pool Cleaner's operation, including its movement patterns and wall-climbing capabilities.

7. MAINTENANCE

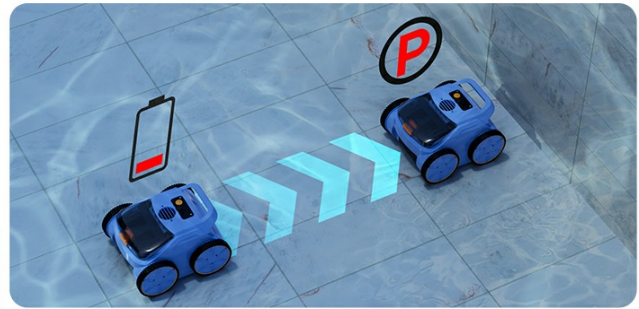
Regular maintenance of your ABNEMEN SAT20 Robotic Pool Cleaner ensures optimal performance and longevity.

7.1 Cleaning the Filter Basket

The cleaner features a top-loading, large-capacity filter basket for easy access and cleaning. After each cleaning cycle, or when the filter basket appears full, remove it and rinse thoroughly with a hose.

Self-Parking Technology ▶

Automatically returns to the edge when the battery drops below 5% for easy retrieval and recharging



◀ Easy to Retrieve

Comes with a retrieval hook and features a quick water release function, making it effortless to retrieve

Figure 7.1: The upgraded filter basket is designed for efficient debris collection.

Easy to Access ▶

The top-load filter basket features user-friendly design, making it easy to lift for quick



◀ Easy to Clean

Just pour out the debris and rinse with water for quick cleaning.

Figure 7.2: The top-load design allows for quick and easy removal and rinsing of the filter basket.

7.2 General Care

- Periodically inspect the brushes for wear and tear.
- Ensure the wheels are free from debris that could impede movement.
- Wipe down the exterior of the cleaner with a soft cloth after use.

8. TROUBLESHOOTING

If you encounter issues with your ABNEMEN SAT20 Robotic Pool Cleaner, refer to the following common solutions:

- **Cleaner not moving or stuck:** Ensure the pool bottom is relatively even and free from large obstructions. The cleaner is not designed for uneven pool bottoms or climbing stairs.
- **Poor cleaning performance:** Check the filter basket for excessive debris and clean it if necessary. Ensure the battery is fully charged.
- **Cleaner not climbing walls effectively:** Verify that the 'Wall Only' or 'Wall & Floor' mode is selected. Ensure the pool walls are free from excessive algae or slippery buildup. Note that the cleaner may struggle with very steep ledges or steps.
- **LED indicators not working:** Ensure the unit is powered on and charged. If the issue persists, contact customer support.

9. WARRANTY AND SUPPORT

Your satisfaction is our priority. If you experience any issues with your ABNEMEN SAT20 Robotic Pool Cleaner that cannot be resolved using the troubleshooting guide, please contact our support team. Refer to your purchase documentation for specific warranty details and contact information.