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› ABNEMEN SAT20 Robotic Pool Cleaner User Manual

ABNEMEN SAT20

ABNEMEN SAT20 Robotic Pool Cleaner User Manual

Model: SAT20

1. INTRODUCTION

Thank you for choosing the ABNEMEN SAT20 Robotic Pool Cleaner. This advanced, cordless pool vacuum is designed to provide efficient and hassle-free cleaning for both above-ground and in-ground pools. Featuring intelligent navigation, powerful suction, and a long-lasting battery, the SAT20 ensures your pool remains sparkling clean with minimal effort. Please read this manual thoroughly before operation to ensure proper use, maintenance, and longevity of your device.



Image: The ABNEMEN SAT20 Robotic Pool Cleaner, a blue unit with large wheels, designed for efficient pool cleaning.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the device.

- Do not operate the pool cleaner when people or pets are in the pool.
- Ensure the charging port is completely dry before connecting the charger.
- Use only the original charger provided by ABNEMEN.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.
- Keep the device out of reach of children.
- Store the cleaner in a cool, dry place when not in use.
- Avoid dropping the device or subjecting it to severe impacts.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- ABNEMEN SAT20 Robotic Pool Cleaner Unit
- Charging Adapter
- Retrieval Hook
- User Manual (this document)

4. PRODUCT FEATURES

4.1 Cordless Freedom & Smart Navigation

The SAT20 operates without tangled cords, utilizing SonarNav Pro smart navigation for non-repetitive, efficient cleaning paths. It adapts to both above-ground and in-ground pools.

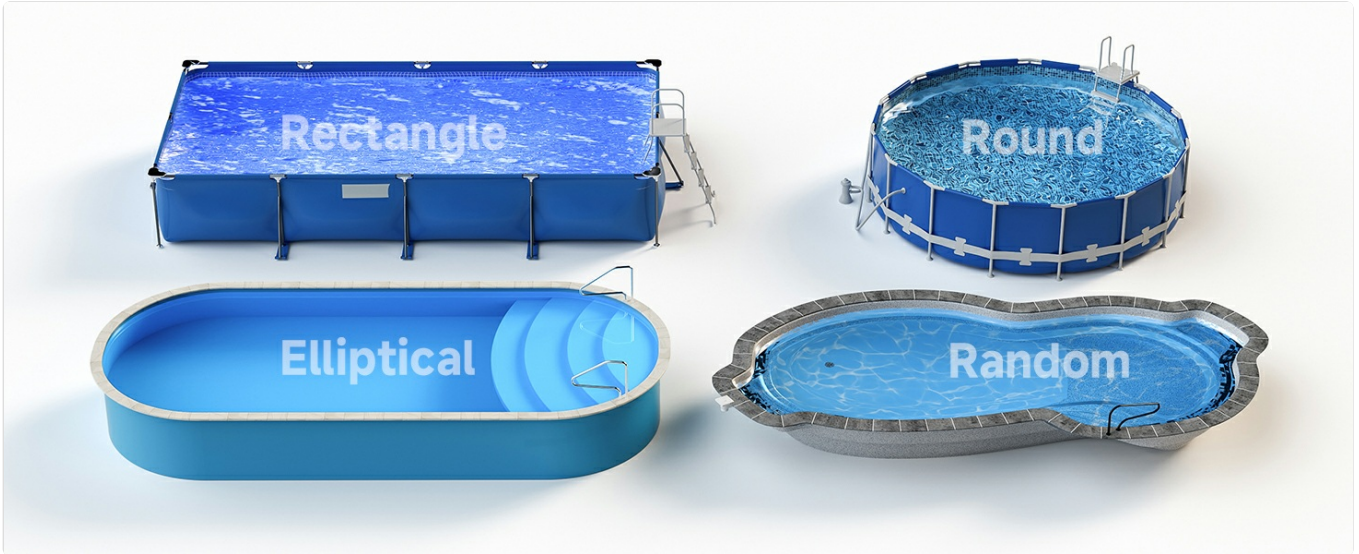


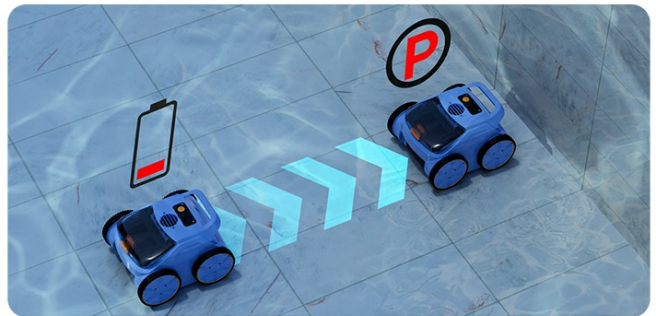
Image: The robotic cleaner demonstrating intelligent navigation patterns on a pool wall and floor.

4.2 Powerful Cleaning Capability

Equipped with a 180W motor and 4800 GPH filtration capacity, it effectively removes dirt, leaves, and sand. Reinforced PVC brushes ensure thorough cleaning across various pool surfaces.

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

Image: The cleaner actively suctioning various debris like sand, twigs, leaves, and pet hair from the pool floor.

4.3 Extended Runtime & Coverage

Offers up to 180 minutes of cleaning, covering up to 2000 sq. ft. on a single charge. It can clean a 500 sq. ft. pool up to 4 times and climbs inclines up to 45°.



Upgraded Filter Basket

Dedicated debris space for more collection

Image: Multiple robotic cleaners operating in a pool, illustrating comprehensive cleaning of floors, walls, and slopes.

4.4 Smart Docking & Alerts

Automatically returns to the pool edge when the battery is low for easy retrieval. LED indicators provide real-time status updates (working, charging, attention needed).

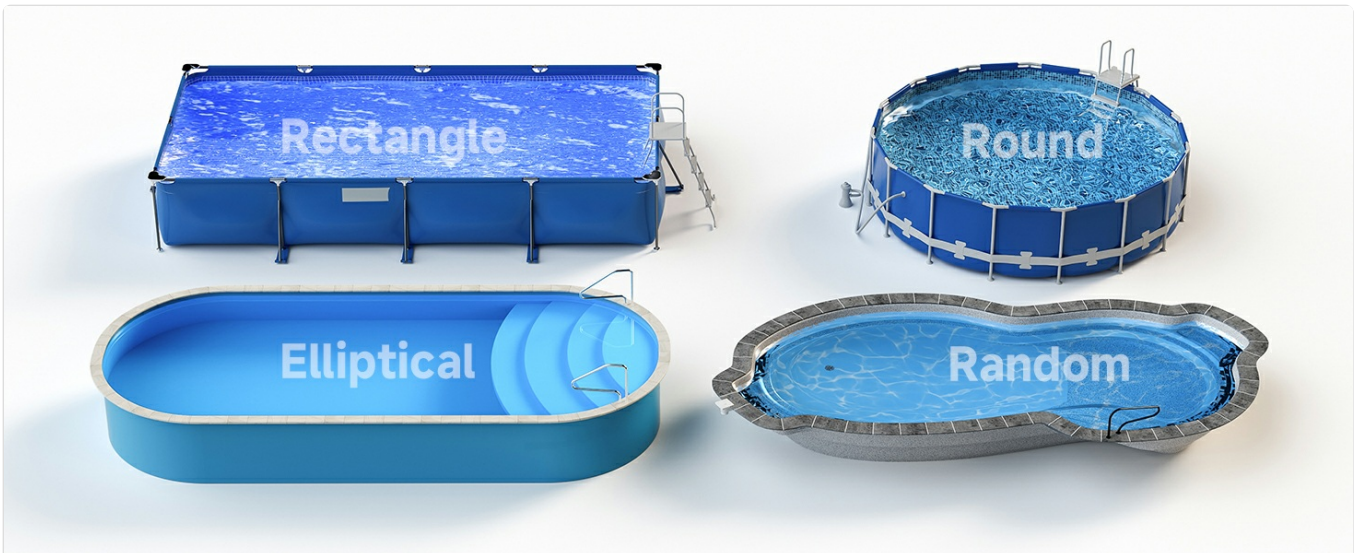


Image: The cleaner automatically returning to the pool edge when battery is low, indicated by a battery icon and arrows.

4.5 High-Efficiency Filter System

Features a top-loading, large-capacity filter that traps fine particles without clogging. It's easy to detach and rinse for minimal maintenance.

Up to 2100 Sq.Ft with ANY Shape



Image: A close-up of the upgraded filter basket, designed for collecting more debris and easy cleaning.

5. SETUP

5.1 Initial Charging

1. Before first use, fully charge the pool cleaner. The charging time is approximately 4 hours.
2. Ensure the charging port on the device is dry before connecting the charging adapter.
3. Connect the adapter to a power outlet and then to the cleaner's charging port.
4. The LED indicator will show charging status. Refer to the LED Indicator section for details.

5.2 Preparing the Pool

- Ensure the pool water is within the recommended temperature range (typically 50-95°F / 10-35°C).
- Remove any large objects or toys from the pool that could obstruct the cleaner.
- The cleaner is suitable for pools up to 2000 sq. ft. and various shapes including Rectangle, Round, Elliptical, and Random. It is not suitable for uneven pool bottoms or pools with significant obstructions like drains that could trap the unit.



Image: Visual guide indicating the robotic cleaner is perfect for above-ground pools and various shapes, but not for uneven or obstructed pools.

6. OPERATING INSTRUCTIONS

6.1 Starting the Cleaner

1. Once fully charged, press the power button on the cleaner to turn it on.
2. Gently submerge the cleaner into the pool water. Ensure it is fully submerged and air bubbles escape from the unit.
3. The cleaner will begin its cleaning cycle automatically.

6.2 Cleaning Modes

The SAT20 offers multiple cleaning modes:

- **Auto Mode (Wall + Floor):** Provides comprehensive cleaning of both the pool floor and walls. Runtime up to 180 minutes.
- **Floor Mode:** Focuses solely on cleaning the pool floor. Runtime up to 200 minutes.
- **Wall Mode:** Concentrates on cleaning the pool walls. Runtime up to 150 minutes.

Refer to the device's control panel or specific instructions for selecting cleaning modes.

6.3 Retrieving the Cleaner

- When the battery is low, the cleaner will automatically return to the edge of the pool.
- Use the provided retrieval hook to gently pull the cleaner out of the water.
- Allow excess water to drain from the unit before handling.

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.

Image: The robotic cleaner being lifted from the pool using a retrieval hook, demonstrating the ease of retrieval.

7. MAINTENANCE

7.1 Filter Basket Cleaning

Regular cleaning of the filter basket is crucial for optimal performance.

1. After each cleaning cycle, remove the cleaner from the pool.
2. Locate the top-loading filter basket.
3. Open the filter compartment and lift out the basket.
4. Empty any collected debris into a waste bin.
5. Rinse the filter basket thoroughly with a garden hose until clean.

6. Reinsert the dry filter basket into the cleaner and close the compartment securely.

Up to 2100 Sq.Ft with ANY Shape



Fiberglass



Hair



Vinyl



Sand



Ceramic tiles



Stone



Pebble Stone



Leaves



Concrete



Grass



Pebble Stone



Dust



Concrete



Branches



Concrete



Insects

Image: Visual demonstration of removing, emptying, and rinsing the top-loading filter basket for easy maintenance.

7.2 General Cleaning & Storage

- Wipe down the exterior of the cleaner with a soft, damp cloth.
- Ensure the device is completely dry before storing.
- Store the cleaner in a cool, dry, and shaded area, away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to charge the battery to approximately 50% every 3 months to maintain battery health.

8. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---|--|---|
| Cleaner does not turn on. | Battery is depleted. | Charge the cleaner fully (approx. 4 hours). |
| Cleaner moves slowly or suction is weak. | Filter basket is full or clogged. | Clean the filter basket thoroughly. |
| Cleaner gets stuck or does not cover entire pool. | Large debris or pool obstructions. Uneven pool surface. | Remove large debris. Ensure pool is suitable for robotic cleaner (not excessively uneven). |
| Cleaner does not climb walls effectively. | Low battery. Excessive algae on walls. | Ensure battery is fully charged. Brush pool walls manually to remove heavy algae before cleaning. |
| LED indicator shows an error. | Refer to specific LED codes in a more detailed manual (if available) or contact support. | Turn off the cleaner, wait 1 minute, then restart. If error persists, contact customer support. |

9. SPECIFICATIONS

| Feature | Detail |
|-----------------------------|-------------------------------|
| Model | SAT20 |
| Brand | ABNEMEN |
| Power Source | Battery Powered (Lithium-Ion) |
| Motor Power | 180W |
| Filtration Capacity | 4800 Gallons per Hour (GPH) |
| Battery Runtime (Auto Mode) | Up to 180 minutes |
| Charging Time | 4 Hours |
| Max Pool Coverage | Up to 2000 sq. ft. |
| Max Wall Climbing Incline | 45° |
| Item Weight | 18.91 pounds |
| Product Dimensions | 42.91 x 9.84 x 5.51 inches |
| Battery Energy Content | 7800 mAh |
| Battery Voltage | 24 Volts |

10. WARRANTY AND SUPPORT

ABNEMEN provides a warranty for this product against defects in materials and workmanship under normal use. The specific warranty period may vary by region and retailer. Please retain your proof of purchase for warranty claims. For technical support, troubleshooting assistance, or warranty inquiries, please contact ABNEMEN customer service. Contact information can typically be found on the product packaging or the official ABNEMEN website. Your satisfaction is our priority. If you experience any issues, our support team is ready to help.