

HTH 92053 A100

Beatbot A100 Cordless Robotic Swimming Pool Cleaner User Manual

Model: 92053 A100 | Brand: HTH

1. INTRODUCTION

The Beatbot A100 Robotic Pool Cleaner is an advanced, high-efficiency device designed to automate the cleaning of your swimming pool. It integrates a powerful Beatbot OS, featuring a quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, and advanced memory chips (DDR & Flash storage), along with 15 smart sensors for efficient navigation and comprehensive cleaning. This cordless unit is engineered for ease of use, retrieval, and maintenance, simplifying your pool care routine.



Image 1.1: The Beatbot A100 Robotic Pool Cleaner shown alongside its companion smartphone application, illustrating its smart control capabilities.

Key Features:

- **Intelligent Navigation:** Equipped with a cutting-edge CPU, 15 sensors, and sophisticated AI algorithms, the A100 maps all pool types to optimize cleaning paths and avoid obstacles.
- **Powerful Cleaning:** A 200W brushless motor delivers 5500 GPH of suction power, effectively filtering debris with its ultra-fine 150µm filter basket.
- **Dual-Brush System:** Features independent operating roller brushes at the front and back for double the scrubbing performance.
- **Cordless Operation:** Provides approximately 3 hours of cleaning time on a single charge, covering pool floors, walls, and the waterline. Includes an 88W quick charge dock for full charge in under 3 hours.
- **Versatile Application:** Suitable for in-ground and above-ground pools of various shapes, materials, and water types, ideal for pools up to 2,260 sq.ft.

2. PRODUCT COMPONENTS

The Beatbot A100 package includes the robotic cleaner unit, a wireless charging dock, and the necessary power adapter. Familiarize yourself with the main components of the cleaner before operation.



Image 2.1: Front view of the Beatbot A100 Robotic Pool Cleaner, highlighting its robust design and track system.

Safe, Convenient Charging Storage

Ergonomic Wireless Charging Dock



Magnetic
Wireless Charging



Safer, No Plugs or
Exposed Ports



Space-Saving
Vertical Storage



Full Charge in
Just 3 Hours

3. SETUP GUIDE

3.1 Initial Charging

Before first use, fully charge the Beatbot A100.

1. Place the wireless charging dock on a stable, dry surface near a power outlet.
2. Connect the power adapter to the charging dock and plug it into a wall outlet.
3. Carefully place the Beatbot A100 onto the charging dock. Ensure proper alignment for magnetic wireless charging. The indicator lights on the unit will confirm charging status.
4. A full charge takes approximately 3 hours. Do not operate the unit while charging.

3.2 App Installation and Connection

The Beatbot App provides comprehensive control and customization options for your cleaner.

1. Download the "Beatbot" app from your smartphone's app store (iOS or Android).
2. Open the app and follow the on-screen instructions to create an account or log in.
3. Ensure your Beatbot A100 is charged and powered on.
4. Within the app, select "Add Device" and follow the pairing instructions. The cleaner supports 5G/2.4G WiFi and Bluetooth connectivity.
5. Once connected, you can view cleaning data history, select and customize cleaning modes, and receive OTA performance updates.

Smart Intuitive Beatbot App

Effortless Control at Your Fingertips



5G/2.4G WiFi
& Bluetooth



Select & Customize
Cleaning Modes



View Cleaning
Data History



OTA Performance
Updates

Image 3.1: The Beatbot A100 shown with a smartphone displaying its intuitive app interface, allowing for effortless control and customization.

4. OPERATING INSTRUCTIONS

4.1 Placing the Cleaner in the Pool

Ensure the pool is free of large debris that could obstruct the cleaner.

1. Gently lower the Beatbot A100 into the pool. It will slowly sink to the bottom.
2. Wait for any trapped air to escape from the unit. This may take a few moments.
3. Once fully submerged, the cleaner is ready for operation.

4.2 Starting a Cleaning Cycle

You can initiate a cleaning cycle via the Beatbot App or by pressing the power button on the unit (if available for quick start).

- **App Control:** Open the Beatbot App, select your device, and choose your desired cleaning mode (e.g., floor, wall, waterline). Press "Start" to begin.

- The A100 will intelligently map the pool and execute an optimized cleaning path, covering floors, walls, and the waterline.

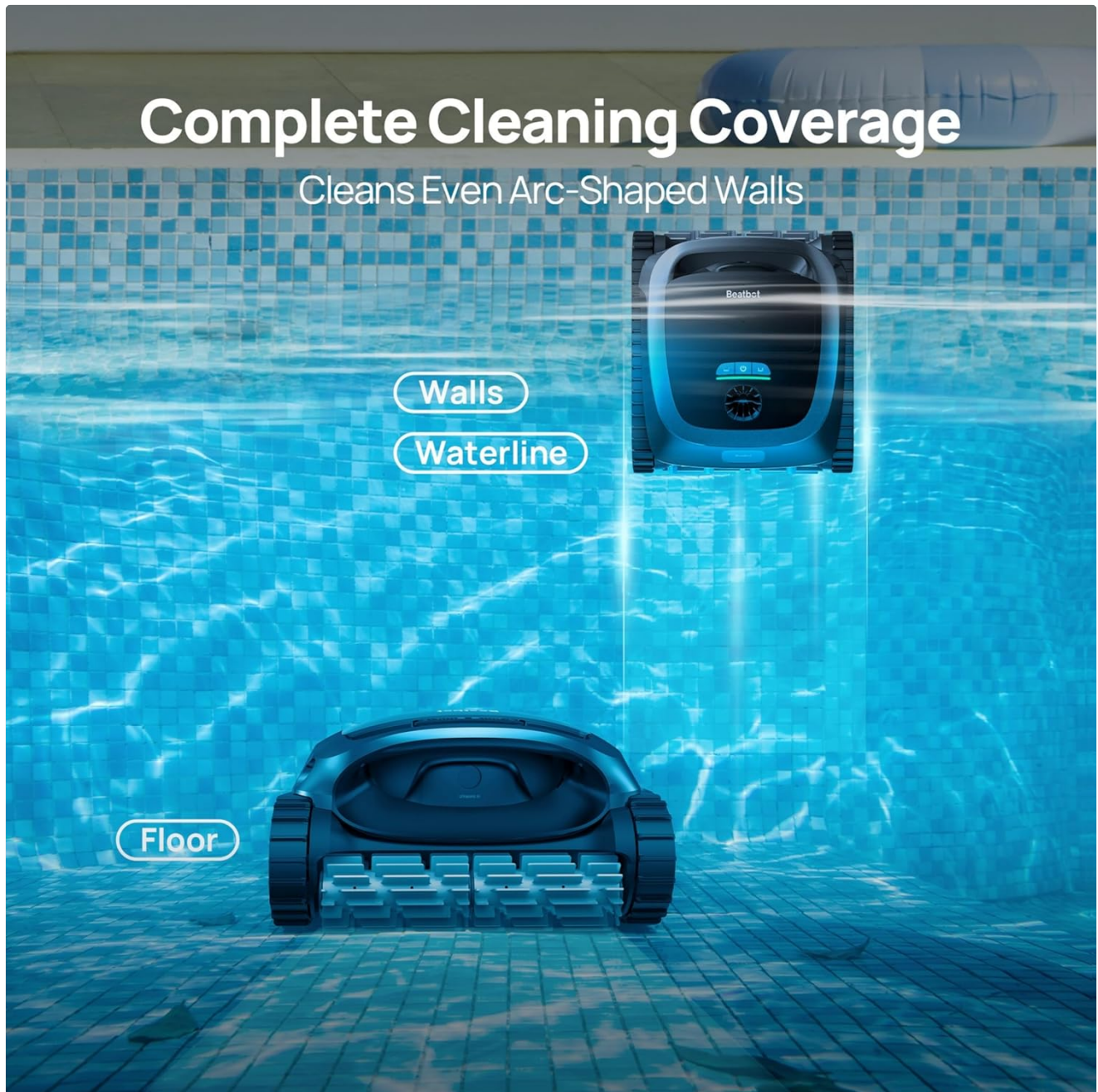


Image 4.1: Illustration of the Beatbot A100's complete cleaning coverage, including the pool floor, walls, and waterline, even on arc-shaped surfaces.

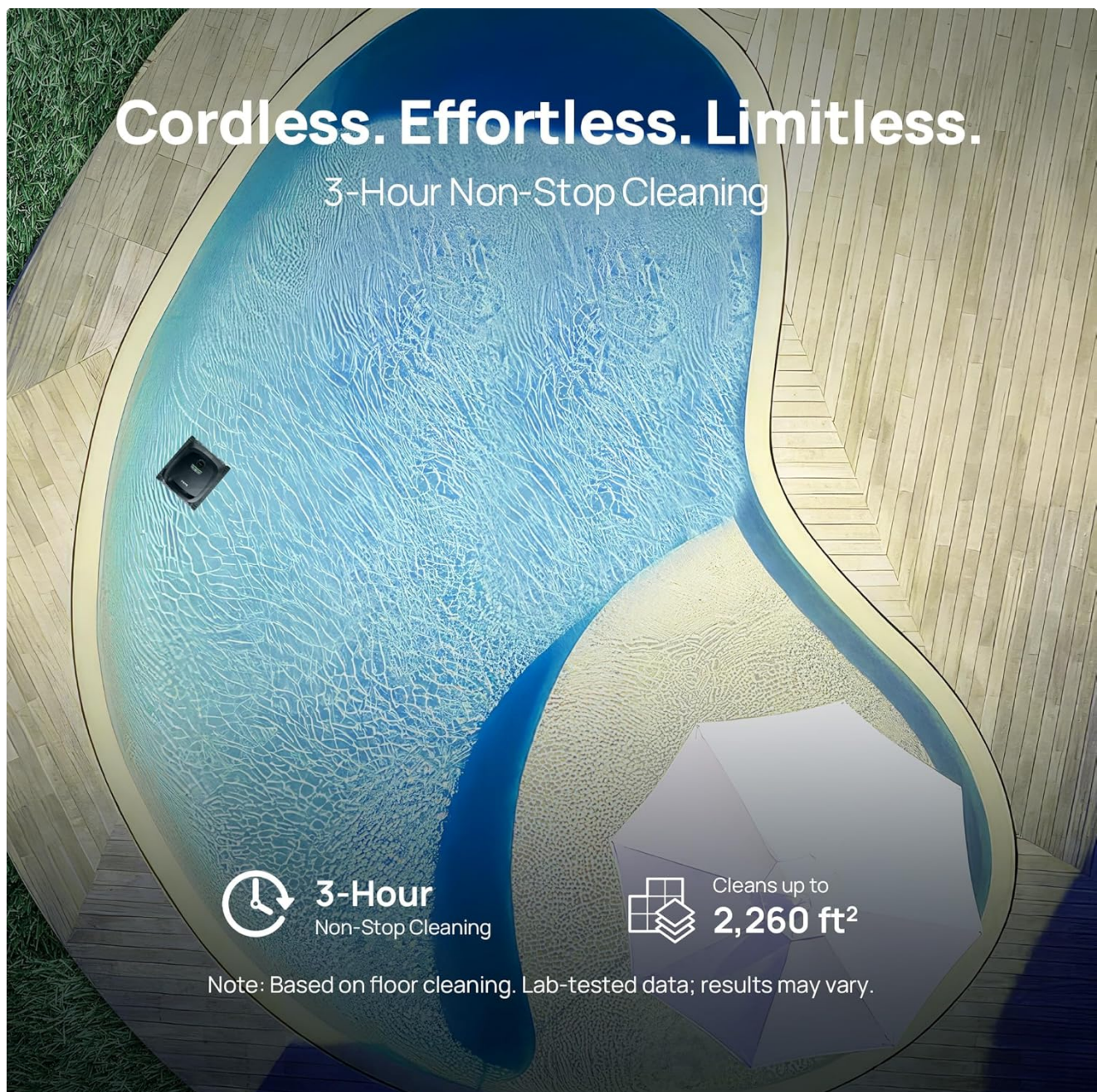


Image 4.2: Visual representation of the Beatbot A100's optimized path planning, showing S-Path for efficient floor cleaning and N-Path for precision wall and waterline coverage, powered by its 4-Core 1.8GHz CPU and 15 sensors.

4.3 Retrieving the Cleaner

Upon completion of a cleaning cycle or when the battery is low, the Beatbot A100 will automatically return to the waterline for easy retrieval.

1. The cleaner will perform a "Smart Return" function, moving to the nearest pool edge.
2. It will then engage "Waterline Parking," positioning itself for convenient lifting.
3. Use the integrated handle to carefully lift the unit out of the water. Allow excess water to drain before placing it on the charging dock or storing it.

Smart Parking, Effortless Retrieval

Ultimate Cleaning Convenience



Image 4.3: The Beatbot A100 illustrating its Smart Parking and Smart Return features, which facilitate effortless retrieval from the pool by positioning itself at the waterline.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Beatbot A100.

5.1 Cleaning the Filter Basket

The Beatbot A100 features an ultra-fine 150µm filter basket that should be cleaned after each use or when visibly full.

1. Power off the unit and remove it from the pool.
2. Locate the filter basket access point (refer to the product diagram in the full manual for exact location).
3. Open the access and remove the filter basket.
4. Empty any collected debris and rinse the filter basket thoroughly with a garden hose until clean.
5. Reinsert the clean filter basket and secure the access point.

5.2 Cleaning the Brushes

Inspect the dual-group roller brushes regularly for debris entanglement or wear.

- Remove any hair, leaves, or other debris that may be wrapped around the brushes.
- Rinse the brushes with clean water.
- If brushes show significant wear, replacement may be necessary. Consult the full manual or manufacturer's website for replacement parts.



Image 5.1: The Beatbot A100 showcasing its four extra-long brushes, designed for ultra-wide coverage and ultra-fine filtration, providing twice the cleaning efficiency.

5.3 Storage

When not in use, store the Beatbot A100 in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the unit is clean and fully charged before long-term storage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Beatbot A100. For more complex problems, refer to the full product manual or contact customer support.

Problem	Possible Cause	Solution
Cleaner does not start	Low battery; Power button not pressed; App connection issue.	Ensure unit is fully charged. Press power button firmly. Re-establish app connection.
Poor cleaning performance	Full filter basket; Obstructed brushes; Incorrect cleaning mode.	Clean filter basket. Remove debris from brushes. Select appropriate cleaning mode via app.
Cleaner gets stuck or moves erratically	Obstacles in pool; Sensor obstruction; Water chemistry imbalance.	Remove large objects from pool. Clean sensors. Check and balance pool water chemistry.
Cannot connect to app	Bluetooth/WiFi off; Cleaner not in pairing mode; App outdated.	Ensure Bluetooth/WiFi is enabled on phone. Restart cleaner and app. Update app to latest version.

7. SPECIFICATIONS

Detailed technical specifications for the Beatbot A100 Robotic Pool Cleaner.

Model Name	Beatbot A100 Robotic Pool Cleaner
Item Model Number	92053 A100
Brand	HTH
Power Source	Battery Powered
Control Method	App
Special Features	Automatic Shut Off, Lightweight, Self Propelled
Product Dimensions	17.6 x 15.7 x 9.1 inches (44.7 x 39.9 x 23.1 cm)
Item Weight	34.2 pounds (15.5 kg)
Material	Polypropylene
Color	Navy Blue
Battery Type	1 Lithium Ion battery (included)
Lithium Battery Energy Content	133.38 Watt Hours
Charging Time	Approximately 3 Hours
Maximum Pool Size	Up to 2,260 sq.ft.
Filter Fineness	150 µm
Suction Power	5500 GPH
UPC	073187920539

Powerful Cleaning and Climbing



200_w

Brushless Pump Motor

5500_{GPH}

Ultra-Strong Suction

Image 7.1: An exploded view illustrating the 200W brushless pump motor, responsible for 5500 GPH ultra-strong suction, enabling powerful cleaning and climbing capabilities.


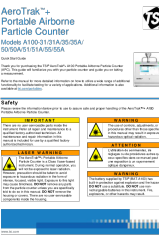

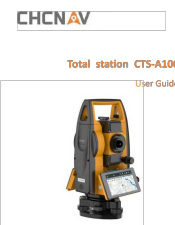

8. WARRANTY AND SUPPORT

For warranty information, product registration, or technical support, please refer to the official HTH website or contact their customer service department. Keep your purchase receipt for warranty claims.

Manufacturer: Innovative Water Care

Brand: HTH

Website: Visit the [HTH Store on Amazon](#) (for general brand information)

	<p>Beatbot A100 Pro Quick User Guide - Robotic Pool Cleaner</p> <p>Concise user guide for the Beatbot A100 Pro robotic pool cleaner, covering setup, operation, app connection, and maintenance. Learn how to use your pool cleaner effectively.</p>
	<p>TSI AeroTrak+ A100 Portable Airborne Particle Counter Quick Start Guide</p> <p>This Quick Start Guide provides essential information for setting up and operating the TSI AeroTrak+ A100 Portable Airborne Particle Counter (APC). It covers unpacking, instrument features, initial startup, taking air samples, reviewing data, and proper shutdown procedures. Designed for quick reference, it complements the full operation manual for detailed functionality.</p>
	<p>TSI AeroTrak+ A100 Portable Airborne Particle Counter Quick Start Guide</p> <p>Quick start guide for the TSI AeroTrak+ A100 Portable Airborne Particle Counter, covering unpacking, setup, basic operation, data review, and shutdown procedures.</p>
	<p>CHCNAV CTS-A100 Total Station User Guide: Operation, Features & Setup</p> <p>Official user guide for the CHCNAV CTS-A100 Total Station. Learn about its features, setup, operation, safety, and the LandStar On Board software for professional surveying.</p>
	<p>CHCNAV Total Station User Guide</p> <p>User guide for the CHCNAV Total Station, covering project and data management, settings, applications, and survey/stakeout functions.</p>

DRP Series
Quick Installation Guide

Version 1.1, November 28, 2023

Technical Support Contact Information:
www.moxa.com/support



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[Moxa DRP Series Quick Installation Guide: Setup and Features](#)

Get started with the Moxa DRP Series DIN-rail computers. This guide covers installation, connectivity, and essential features for reliable industrial computing.