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› SUNMAX RT50D 22" Self-Propelled Floor Scrubber Dryer User Manual

SUNMAX RT50D

SUNMAX RT50D 22" Self-Propelled Floor Scrubber Dryer

USER INSTRUCTION MANUAL

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your SUNMAX RT50D 22" Self-Propelled Floor Scrubber Dryer. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent damage or injury. Keep this manual for future reference.

Safety Instructions

- Always wear appropriate personal protective equipment (PPE) such as non-slip footwear and eye protection during operation.
- Ensure the machine is turned off and disconnected from power before performing any maintenance, cleaning, or adjustments.
- Do not operate the machine on inclines exceeding the manufacturer's specifications.
- Keep hands, feet, and loose clothing away from moving parts.
- Use only low-foam, neutral detergents specifically designed for floor scrubbers. High-foam detergents can damage the vacuum system.
- Do not use the machine to pick up flammable liquids, toxic materials, or large debris that could clog or damage the system.
- Store the machine in a dry, secure location when not in use.
- Ensure proper ventilation when charging batteries.

Product Overview and Components

The SUNMAX RT50D is a self-propelled floor scrubber dryer designed for efficient cleaning of large hard floor surfaces. Key components include the solution tank, recovery tank, brush deck, squeegee assembly, and control panel.



This image displays the SUNMAX RT50D self-propelled floor scrubber dryer along with its essential accessories: a heavy-duty brush, red burnishing pad, two 12V batteries, and the intelligent 15V charger.

Forward & Reverse Drive | Reduce Operator Fatigue



Adjustable Speed | Smooth Maneuvering

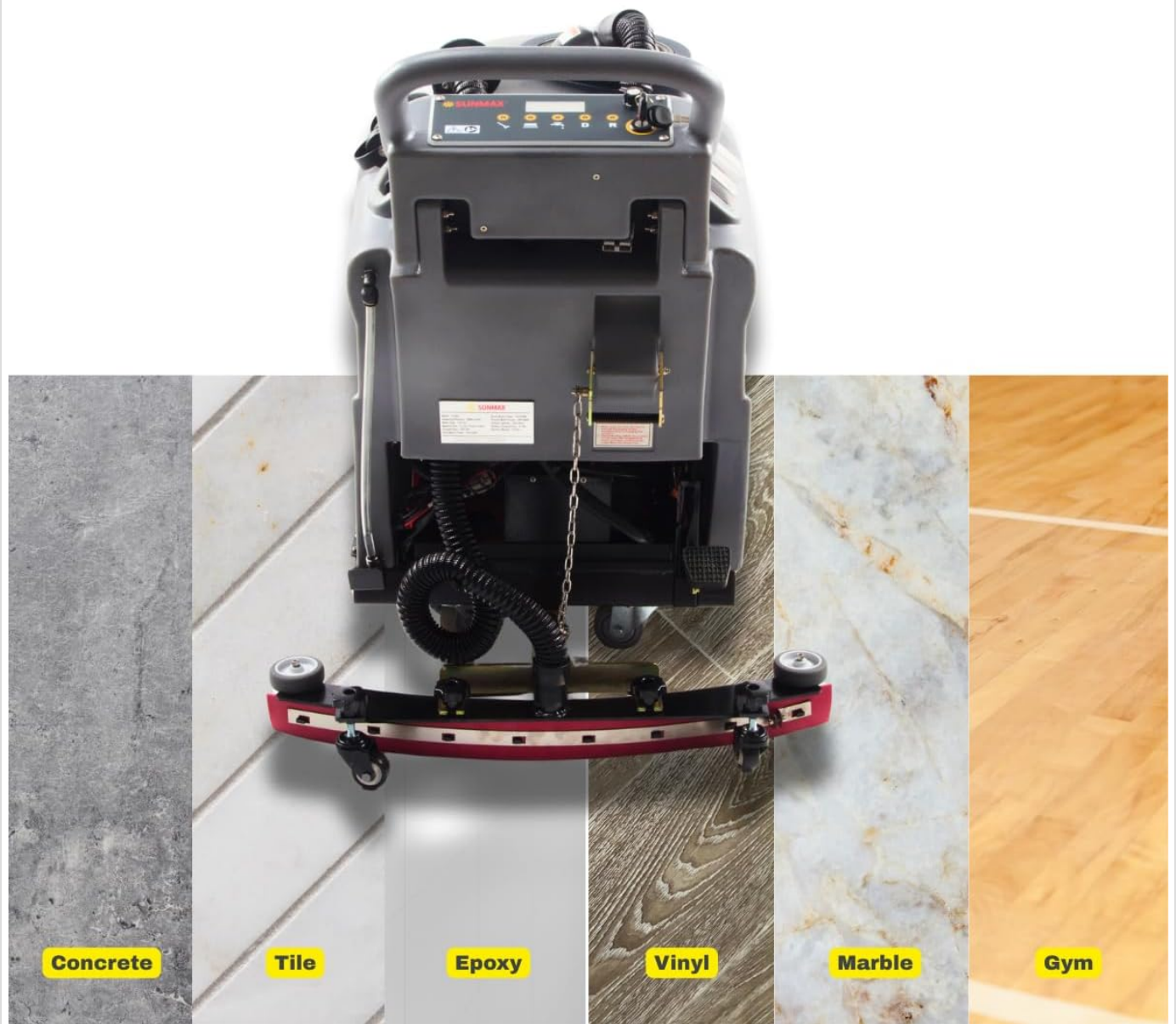
Detailed view of the control panel, showing buttons and knobs for operating the scrubber's various functions, including speed, brush, vacuum, and water flow.

**13.2 gal Solution Tank | 14.5 gal Recovery Tank
Quick Fill & Easy Drain**



An illustration of the scrubber's tank system, indicating the solution tank for clean water, the recovery tank for dirty water, the water inlet, drain hose, and water valve.

Safe on Multiple Surfaces | Professional Grade Cleaning



A selection of cleaning accessories, including a white heavy-duty brush for rough surfaces, a red pad for scrubbing/buffing, a white pad for high-gloss polishing, and a black pad for stripping.

Setup

1. **Unpacking and Assembly:** Carefully remove the scrubber and all accessories from the packaging. Attach the squeegee assembly to the rear of the machine. Install the desired brush or pad onto the brush deck.
2. **Battery Installation and Charging:** The RT50D requires two 12V batteries (included). Ensure they are properly connected according to the diagrams in the full manual. Fully charge the batteries using the intelligent 15V charger before first use. Recharge after each shift to extend battery life.
3. **Filling the Solution Tank:** Open the water inlet cap on the solution tank. Fill the tank with clean water and an appropriate low-foam, neutral floor cleaning detergent. Do not overfill. The solution tank capacity is approximately 13.2 gallons.

Operating Instructions

1. **Pre-Operation Check:** Verify that the solution tank is filled, the recovery tank is empty, the squeegee is properly attached, and the brush/pad is securely installed.

2. **Starting the Machine:** Insert the key into the ignition and turn it to the 'ON' position. The screen display on the control panel will illuminate.
3. **Adjusting Speed:** Use the Speed Control Knob on the control panel to set the desired operating speed.
4. **Engaging Cleaning Functions:** Press the 'Brush' button to start the brush rotation. Press the 'Water' button to dispense cleaning solution. Press the 'Vacuum' button to activate the vacuum motor for water recovery.
5. **Cleaning Procedure:** Engage the forward drive by pressing the 'Forward' button. Guide the machine across the floor in overlapping passes. For reverse movement, press the 'Reverse' button.
6. **Draining Tanks:** After cleaning, turn off all functions and the machine. Locate the drain hose for the recovery tank and empty the dirty water into an appropriate disposal area. Flush the recovery tank with clean water. The solution tank can also be drained if there is leftover solution.

Pro Tip: For best performance, use low-foam neutral detergents and recharge the battery after each shift to extend the life of your scrubber.



An image warning against the use of high-foam detergents, which can negatively impact the scrubber's performance and vacuum system.

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your SUNMAX RT50D.

- **Daily Cleaning:**

- Empty and rinse the recovery tank thoroughly after each use to prevent odor and bacterial growth.
- Clean the squeegee blades and check for wear or damage. Replace if necessary.
- Wipe down the exterior of the machine.

- **Brush/Pad Maintenance:**

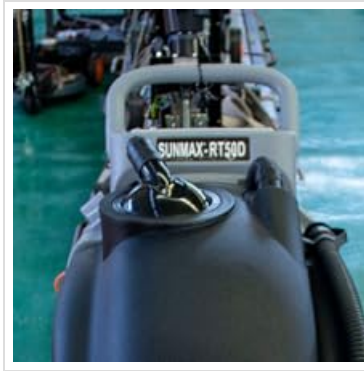
- Remove and clean the brush or pad after each use.
- Inspect for wear and replace worn brushes or pads to maintain cleaning effectiveness.

- **Filter Cleaning:**

- Regularly check and clean the vacuum filter located in the recovery tank to ensure proper suction.

- **Battery Care:**

- Always recharge batteries after each use.
- Periodically check battery terminals for corrosion and clean if necessary.



A detailed view of the recovery tank's opening, highlighting the internal filter that needs regular cleaning to maintain vacuum efficiency.



An image indicating the location of the suction hose and filter, crucial components for proper vacuum function and requiring periodic inspection and cleaning.

Troubleshooting

This section addresses common issues you might encounter with your RT50D scrubber. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Machine does not start	Low battery charge; Key not fully engaged; Power switch off	Charge batteries; Ensure key is fully turned; Turn power switch on
Poor water recovery (streaks left)	Squeegee blades worn or damaged; Recovery tank full; Vacuum filter clogged; Suction hose blocked	Inspect/replace squeegee blades; Empty recovery tank; Clean vacuum filter; Check and clear suction hose
No solution dispensing	Solution tank empty; Water valve closed; Solution filter clogged	Fill solution tank; Open water valve; Clean solution filter
Brush not rotating	Brush motor issue; Brush jammed; Brush button not engaged	Check for obstructions; Ensure brush button is pressed; Contact support if motor issue suspected
Machine not moving (self-propelled)	Drive motor issue; Forward/Reverse button not engaged; Low battery	Ensure drive button is pressed; Charge batteries; Contact support if motor issue suspected

Specifications

Technical specifications for the SUNMAX RT50D Floor Scrubber Dryer:

Feature	Specification
Model	RT50D
Brush Cleaning Path	22 inches
Squeegee Width	31 inches
Solution Tank Capacity	13.2 gallons
Recovery Tank Capacity	14.5 gallons
Coverage Area	Up to 36,000 sqft/hour
Brush Speed	200 RPM
Power Source	Battery Powered (2 x 12V batteries included)
Voltage	12 Volts
Maximum Power	550 Watts
Item Weight	375 Pounds
Product Dimensions (L x W x H)	53 x 21 x 38 inches (or 45"D x 23"W x 37"H)
Material	Polypropylene (PP)
Specific Uses	Concrete, vinyl and tile, Hard floor surfaces



A dimensional drawing of the SUNMAX RT50D, providing its height, depth, and width measurements.

Brush and Pads in the Box



White Heavy-Duty Brush

Best for: Concrete, tile, warehouse floors, or other rough, uneven surfaces



Red Sourcing Pad -Light Duty Scrubbing/Buffering

Best for: Polished floors like VCT, terrazzo, linoleum



White Sourcing Pad – High-gloss Polishing Pad, Dry Burnishing

Best for: Soft, delicate floors (like marble or finished VCT)



Black Sourcing Pad – Stripping Pad (Heavy Duty)

Best for: Stripping off old wax, sealers, and finish

The floor scrubber demonstrated on multiple floor surfaces, illustrating its versatility across different commercial and industrial environments.



An image illustrating the wide range of floor types compatible with the SUNMAX RT50D scrubber, including concrete, tile, marble, epoxy, vinyl, terrazzo, and sealed hardwood.

Warranty and Support

The SUNMAX RT50D comes with a 2-Year Protection plan. For any inquiries, technical assistance, or service requests, please contact SUNMAX customer support. US local support and nationwide on-site repair services are available. For detailed warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official SUNMAX website.



Key support features for SUNMAX products, including protection, local support, OEM parts, and repair services.