



Standard Operating Procedure (SOP) for Smart Agitation System

Summary

1. Start-Up
2. Loading Material
3. Operation
4. Harvesting / Sieving
5. Dumping and Equipment Clean-Up

1. Introduction

This SOP details the procedures for operating the Access Rosin Smart Agitation System (SAS) for solvent-less cannabis extraction, covering material preparation, starting temperatures, workflow, and best practices.

2. Equipment Overview

- **Smart Agitation System (SAS)**
 - Available in 50-gallon, 85-gallon, and 132-gallon sizes.
 - Modular design can be customized for new or existing facilities.
 - Features include high-torque planetary gearbox, clean-in-place sprayer balls, digital water controller, and monitor.
 - True ice-less system with insulated double-jacket walls and smart heat exchanger for optimal temperature control (28°F to 32°F).

3. Preparing the Material

- **Fresh Frozen Material:** Trim and freeze the cannabis immediately after harvest to preserve terpenes and cannabinoids.
- **Dry Material:** Ensure the cannabis is fully dried and cured before processing.

4. Starting Temperatures

- **Water Temperature:** Maintain between 28°F and 32°F using the smart heat exchanger.
- **Ice:** Use a 1:4 or 1:5 ratio of ice to water if not utilizing the ice-less package.

5. Workflow

Start-Up

1. **Chiller:** Turn on the system's chiller 1 hour prior to extraction. Set temperature between 28°F to 32°F.
2. **Equipment Setup:**
 - Turn the system to the ON position.
 - Ensure a 120 psi air supply is connected to the Smart Agitator air regulator.
 - Turn the blue ON/OFF valves on the Agitation tank and R.O. Tank to the ON position.
 - Verify the input water supply is connected and on.
 - Press the R.O. fill icon to fill the R.O. chill tank until the automated cut-off point.
 - Press the Chiller icon on the main screen to activate chiller valves.
 - Press the recirculation icon on the R.O. tank to start recirculation and set the pump to 50.
 - Verify the dump valve is closed.
 - Verify R.O. temperature is at 32°F or below.

Biomass Loading

- Have biomass bags open and the fresh frozen buds separated in the bag.
- Press Start Wash on the touchscreen. The Agitation Tank will fill to 50% of the selected fill amount.
- The touchscreen will indicate when it's time to load the biomass. Load the biomass and close the loading door.
- Press the green program button to begin the wash cycle.

Operation

- The system completes cycle 1, indicated by an audible beep.
- Ensure sieve bags are in place and ready to collect. Open the dump valve and turn on the sieve system.
- Allow the agitation tank to drain until the system reads empty. Close the valve and press the green program button to continue to cycle #2.
- Repeat steps for cycles 2 through 5.

Harvesting / Sieving

- Spin flow vibration technology eliminates the need to manually work the sieve bags. The electronic spin motion ensures thorough agitation, maximizing yield and efficiency.

Dumping and Cleaning

- Close the drain valve and verify the containment cart is in place with the valve closed.
- Press the Auto icon on the touchscreen and select 'Yes' to switch to manual mode.
- In manual mode, press the lower portion of the Agitation tank icon to prompt the door to open.
- Select 'Yes' when prompted to confirm door open action. Allow the biomass to slide into the containment cart.
- Use the integrated sprayer balls to rinse the agitation tank, door, and door seal.
- Close the door and begin the next batch.

Pro Tips

- If no other processing is scheduled, leave the agitation door open until the next operation.
- Pre-soak material before washing to save time.
- Pre-freeze trays to manage excess freshly washed hash.

6. Pros and Cons of Techniques

- **Work Bags vs. Naked Washing**
 - **Work Bags:** Easier cleaning, but reduced capacity (about 20% less material).
 - **Naked Washing:** Increased capacity, but requires more effort to clean the machine.
- **Recirculating Wash Water**
 - **Advantages:** Less water waste, cost-effective.
 - **Disadvantages:** Requires additional equipment (pumps, hoses) and careful management.

7. Maintenance and Cleaning

- **Between Washes:** Spray down the walls and floor of the SAS.
- **End of Day:** Run a cleaning cycle with water and isopropyl alcohol (or ethanol).
- **Regular Maintenance:** Inspect for wear and replace components as needed.

8. Documentation and Record Keeping

- Log all extractions, including date, material type, and parameters.
- Document maintenance activities.
- Keep records accessible for compliance.

9. Training and Support

- Access Rosin provides training and support to ensure proper equipment use. Consult our knowledge base and support team for additional guidance.

Conclusion

Adhering to this SOP ensures the safe and efficient operation of Access Rosin's Smart Agitation System, leading to high-quality extractions and consistent product quality. For further assistance, contact us at info@accessrosin.com.

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For detailed specifications and layout, refer to the provided specification sheet and consult with our team for any customization and scaling requirements.