

Revision: ----	Document Code: WI- ML-6427	Standard Operating Procedure (SOP) for Scotsman Ice Maker	 دانشگاه گیلان استاد بزرگوار و درباری آستان خدا والسلام و برکت
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Operating and Maintenance Instructions: Scotsman Ice Maker

1. Purpose

To provide standard operating procedures for the Scotsman (Italian) ice maker to ensure the consistent production of high-quality ice for laboratory use.

2. Scope of Application

This device is utilized for the production of ice in various sizes and shapes suitable for laboratory applications.

3. Responsibility: Laboratory experts are responsible for the correct implementation of these procedures.

4. Operational Procedures

- **Installation:** Install the device in a suitable location with accessible water and electrical connections. Ensure the unit is leveled, and verify that both water supply and drainage pipes are securely connected.
- **Power Protection:** Always connect the unit to a reliable surge protector/voltage regulator to prevent damage from power fluctuations.
- **Initial Setup:** Configure the machine's internal settings (time and temperature) according to the manufacturer's user manual.
- **Water Quality:** Ensure the input water is clean and filtered. It is recommended to use a blend of purified water and tap water to ensure the presence of necessary minerals for optimal ice formation.
- **Performance Monitoring:** Regularly verify that ice production is continuous and that the quality of the ice meets laboratory standards.
- **Hygiene:** Clean the ice storage bin regularly to prevent bacterial growth and contamination.

5. Safety Precautions

- **Electrical Safety:** Use a dedicated surge protector at all times.
- **Maintenance Safety:** Always disconnect the power supply before performing any repairs or internal maintenance.
- **Environmental Hazards:** Keep the unit away from areas with excessive humidity.

6. Maintenance Guidelines

- **Filtration:** Regularly inspect, clean, or replace the air and water filters.
- **Descaling:** Perform periodic descaling of the machine as required to prevent mineral buildup.
- **Exterior Care:** Clean the outer body regularly using a soft cloth and a mild detergent.
- **Longevity:** Using purified water not only improves ice quality but significantly extends the operational lifespan of the machine.

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