

Manitowoc RNS-0385A

Manitowoc RNS-0385A Undercounter Nugget Ice Machine User Manual

Model: RNS-0385A

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Manitowoc RNS-0385A Undercounter Nugget Ice Machine. Please read this manual thoroughly before installing or operating the unit and keep it for future reference. Proper adherence to these instructions will ensure optimal performance and longevity of your ice machine.

2. SAFETY INFORMATION

Important Safety Instructions:

- Always disconnect power before performing any service or maintenance.
- Ensure the unit is properly grounded to prevent electrical shock.
- Do not operate the machine with damaged power cords or plugs.
- Installation and repairs should only be performed by qualified service personnel.
- Keep ventilation openings clear of obstructions. This is an air-cooled unit and requires adequate airflow.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

3. PRODUCT OVERVIEW

The Manitowoc RNS-0385A is an undercounter nugget ice machine designed for commercial use. It features a self-contained, air-cooled condenser and an integrated ice storage bin. This unit produces soft, chewable nugget ice, ideal for various beverage and food service applications.

- **Ice Style:** Nugget

- **Cooling Type:** Air-Cooled
- **Condenser:** Self-Contained
- **Ice Production:** Up to 300 lbs per 24 hours (under optimal conditions)
- **Bin Storage Capacity:** 88 lbs
- **Refrigerant:** R404a
- **Voltage:** 115 Volts
- **Dimensions:** Approximately 27.17" W x 29.06" D x 39.52" H (including 6" bin legs)
- **Weight:** 224 pounds



Figure 1: Front view of the Manitowoc RNS-0385A Undercounter Nugget Ice Machine, showing its compact design and integrated ice bin.

4. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your ice machine. It is recommended that installation be performed by a qualified technician.

4.1 Unpacking

Carefully remove the unit from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately. Due to the unit's weight (224 lbs), use appropriate lifting equipment or assistance to prevent injury.

4.2 Location Requirements

- **Clearance:** Ensure adequate air circulation around the unit. Maintain at least 6 inches of clearance at the back and sides for proper air-cooled condenser operation.
- **Temperature:** Install in an area where ambient temperatures are between 50°F (10°C) and 90°F (32°C).
- **Level Surface:** The machine must be installed on a level, sturdy surface capable of supporting its weight when full of ice and water. Use the adjustable bin legs to level the unit.
- **Water Supply:** A potable water supply with a pressure between 20 psi and 80 psi is required. An inline water filter is highly recommended.
- **Drain:** A floor drain or standpipe drain must be available within 6 feet of the unit. The drain must be lower than the unit's drain outlet.

4.3 Electrical Connection

Connect the unit to a dedicated 115 Volt, 60 Hz, single-phase electrical supply with appropriate overcurrent protection. Do not use extension cords. Ensure the electrical outlet is properly grounded.

4.4 Water and Drain Connections

Connect the water supply line to the inlet valve on the back of the machine. Connect the drain line from the unit to the floor drain, ensuring a continuous downward slope for proper drainage.

4.5 Initial Cleaning

Before first use, clean the ice storage bin and all surfaces that will come into contact with ice. Use a mild, food-safe sanitizer solution and rinse thoroughly.

5. OPERATING INSTRUCTIONS

5.1 Starting the Machine

1. Ensure all water and electrical connections are secure and the water supply valve is open.
2. Plug the unit into the dedicated electrical outlet.
3. Turn the power switch (if present, typically located on the front or side panel) to the "ON" position.
The machine will begin its startup sequence and initiate ice production.

5.2 Ice Production Cycle

The RNS-0385A operates automatically. Water flows into the evaporator, where it is frozen into nugget ice. The ice is then harvested and dropped into the storage bin. The machine will continue to produce ice until the bin is full, at which point a bin thermostat or sensor will pause production. Production will resume as ice is removed from the bin.

5.3 First Ice Batch

The first few batches of ice may be smaller or irregular. It is recommended to discard the first 2-3 batches of ice to ensure the system is fully purged and clean.

6. MAINTENANCE

Regular maintenance is essential for efficient operation and to prolong the life of your ice machine. Always disconnect power before cleaning or servicing.

6.1 Exterior Cleaning

Clean the exterior surfaces with a mild soap and water solution. Wipe dry with a soft cloth. Do not use abrasive cleaners or pads.

6.2 Interior and Bin Cleaning

The ice storage bin should be cleaned and sanitized regularly (at least weekly, or more often depending on usage). Remove all ice, clean with a food-safe cleaner, rinse, and then sanitize with a food-safe sanitizer solution. Allow to air dry or wipe with a clean cloth.

6.3 Condenser Cleaning

The air-cooled condenser coil (located behind the front panel) must be cleaned monthly. Dust and lint accumulation can restrict airflow, reducing efficiency and potentially causing compressor failure. Use a brush or vacuum cleaner to remove debris from the fins. Do not bend the fins.

6.4 Water System Cleaning and Descaling

Periodically, the water system and evaporator may require cleaning and descaling to remove mineral buildup. The frequency depends on water quality. Use Manitowoc-approved ice machine cleaner and descaler solutions, following the product instructions carefully. This procedure typically requires a qualified technician.

6.5 Water Filter Replacement

If an external water filter is installed, replace cartridges according to the manufacturer's recommendations, typically every 6 months or when pressure drop indicates clogging.

7. TROUBLESHOOTING

Before calling for service, review the following common issues and solutions. For problems not listed or if solutions do not resolve the issue, contact a qualified service technician.

Problem	Possible Cause	Solution
Machine not making ice	No power; Water supply off; Bin full sensor activated; High ambient temperature; Dirty condenser.	Check power connection and circuit breaker; Open water supply valve; Remove ice from bin; Ensure adequate ventilation; Clean condenser coil.
Low ice production	Dirty condenser; Restricted water flow (clogged filter); High ambient temperature; Mineral buildup on evaporator.	Clean condenser; Replace water filter; Ensure proper ventilation; Descale evaporator (professional service recommended).
Unusual noises	Loose components; Fan obstruction; Compressor issue.	Inspect for loose parts; Check fan for obstructions; Contact service technician for compressor issues.
Water leaks	Loose water connections; Clogged drain line; Damaged water lines.	Tighten connections; Clear drain line; Inspect and replace damaged lines (professional service recommended).

8. SPECIFICATIONS

Feature	Detail
Model Number	RNS-0385A
Ice Type	Nugget
Cooling Method	Air-Cooled
Daily Ice Production	Up to 300 lbs (at 70°F air, 50°F water)
Bin Capacity	88 lbs
Refrigerant	R404a
Electrical	115V / 60Hz / 1 Phase
Product Dimensions (W x D x H)	27.17" x 29.06" x 39.52" (including 6" legs)
Item Weight	224 lbs

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Manitowoc website. Keep your purchase receipt as proof of purchase for warranty claims. Do not attempt to repair the unit yourself, as this may void the warranty and pose safety risks. Always contact authorized service personnel for repairs.
