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Manitowoc IY-0454A-161 Ice Maker with SPA-310-161 Bin Instruction Manual

Model: IY-0454A-161 Ice Maker, SPA-310-161 Storage Bin

1. PRODUCT OVERVIEW

The Manitowoc IY-0454A-161 Ice Maker, paired with the SPA-310-161 Ice Storage Bin, is a commercial-grade ice production and storage solution. This unit is designed for environments requiring a consistent supply of ice, featuring a robust construction and efficient operation.

The IY-0454A-161 is a 30-inch wide Indigo Series Ice Machine capable of producing up to 450 lbs of ice per 24 hours under optimal conditions (70°F air and 50°F water). It utilizes an air-cooled system and produces half-dice shaped ice. The SPA-310-161 ice bin offers a storage capacity of 180 lbs and features a seamless poly interior liner for ease of cleaning and hygiene.



Figure 1: Manitowoc IY-0454A-161 Ice Maker with SPA-310-161 Bin. This image displays the complete ice maker unit, including the top ice production head and the bottom ice storage bin, both constructed from stainless steel with

a dispenser chute.

2. SETUP AND INSTALLATION

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

2.1 Unpacking

1. Carefully remove the unit from its packaging.
2. Inspect for any shipping damage. Report any damage immediately to the carrier and your supplier.
3. Remove all protective films and packing materials from the exterior and interior of the unit.

2.2 Location Requirements

- Place the unit on a level, sturdy surface capable of supporting its weight when full of ice.
- Ensure adequate clearance around the unit for proper air circulation, especially for the air-cooled condenser. Refer to the manufacturer's specifications for minimum clearances.
- Avoid locations near heat sources or in direct sunlight.
- The ambient air temperature should be between 50°F (10°C) and 110°F (43°C).

2.3 Electrical and Plumbing Connections

- **Electrical:** Connect the unit to a dedicated 115 Volt, single-phase electrical supply as specified in the product documentation. Ensure the circuit is properly grounded.
- **Water Supply:** Connect to a potable water supply with appropriate pressure and temperature. An inline water filter is recommended to maintain ice quality and prolong machine life.
- **Drainage:** Ensure proper drainage for melted ice and wastewater. The drain line should have a continuous downward slope.

3. OPERATING INSTRUCTIONS

The Manitowoc IY-0454A-161 features an intuitive control panel for easy operation.

3.1 Initial Startup

1. After installation, ensure all water and electrical connections are secure.
2. Turn on the water supply to the unit.
3. Plug in the unit or turn on the dedicated circuit breaker.
4. The machine will typically begin its ice-making cycle automatically. Monitor the control panel for any error messages.

3.2 Dispensing Ice

- Place your cup or container under the ice dispenser chute.

- Press the dispense button or activate the sensor (if equipped) to release ice.
- Release the button or remove your hand when the desired amount of ice is dispensed.

3.3 Control Panel (Indigo NXT)

The Indigo NXT control panel provides real-time operational status and allows for adjustments. Refer to the detailed Indigo NXT manual for advanced settings and diagnostics. Common indicators include:

- **Ice Production Status:** Indicates if the machine is actively making ice.
- **Bin Full:** Illuminates when the ice storage bin is full, pausing ice production.
- **Service/Error Codes:** Displays codes if a fault is detected, requiring attention.

4. MAINTENANCE

Regular maintenance ensures efficient operation, extends the lifespan of your ice machine, and maintains ice quality.

4.1 Daily Cleaning

- Wipe down the exterior surfaces with a soft, damp cloth. The corrosion-resistant exterior with a clear-coat finish is designed to resist fingerprints and dirt, making cleaning easy.
- Clean the ice dispenser chute and surrounding areas to prevent ice buildup and maintain hygiene.

4.2 Weekly/Bi-Weekly Cleaning (Ice Bin)

- Empty the ice bin completely.
- Clean the seamless poly interior bin liner with a mild, food-safe sanitizer solution.
- Rinse thoroughly with clean water and allow to air dry before resuming ice production.

4.3 Monthly/Quarterly Cleaning (Condenser & Water System)

- **Air-Cooled Condenser:** Clean the air filter and condenser fins to ensure proper airflow and prevent overheating. Refer to the full manual for specific instructions on accessing these components.
- **Water System:** Descale and sanitize the water system components (evaporator, water pump, water lines) using a Manitowoc-approved cleaner and sanitizer. This process is critical for preventing mineral buildup and bacterial growth.
- **Water Filter:** Replace the inline water filter cartridge as recommended by the filter manufacturer or when ice quality deteriorates.

Caution: Always disconnect power to the unit before performing any cleaning or maintenance procedures.

5. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, contact a qualified service technician.

5.1 No Ice Production

- **Check Power:** Ensure the unit is plugged in and the circuit breaker is on.
- **Check Water Supply:** Verify that the water supply valve is open and water pressure is adequate.
- **Bin Full Sensor:** Confirm the ice bin is not full, or the sensor is not obstructed.
- **Error Codes:** Check the Indigo NXT display for any error codes and consult the manual for their meaning.

5.2 Low Ice Production

- **Ambient Temperature:** High ambient air or water temperatures can reduce production. Ensure proper ventilation.
- **Dirty Condenser:** A dirty air-cooled condenser can restrict airflow. Clean the condenser fins and air filter.
- **Water Flow:** Check for restricted water flow or a clogged water filter.

5.3 Unusual Noises

- **Fan Noise:** A loud fan might indicate a dirty condenser or a failing fan motor.
- **Water Pump:** Gurgling or unusual pump noises could indicate air in the water lines or a failing pump.
- **Ice Harvest:** Some noise is normal during the ice harvest cycle as ice drops into the bin.

6. SPECIFICATIONS

Feature	Specification
Brand	Manitowoc
Ice Maker Model	IY-0454A-161
Ice Bin Model	SPA-310-161
Ice Production Capacity	450 lbs per 24 hours (under optimal conditions)
Ice Bin Capacity	180 lbs
Ice Type	Half Dice
Cooling Type	Air Cooled
Voltage	115 Volts
Refrigerant	R134a
Exterior Finish	Corrosion-resistant with clear-coat finish
Bin Interior	Seamless Poly Liner

7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or contact Manitowoc Foodservice directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, service requests, or to order replacement parts, please contact your authorized Manitowoc dealer or the manufacturer's customer service. Ensure you have your model and serial numbers available when seeking support.