



THE HOTTEST MACHINES ON ICE™

"I" Series
Ice Cube Machine
Owner/Operator
Use and Care Guide

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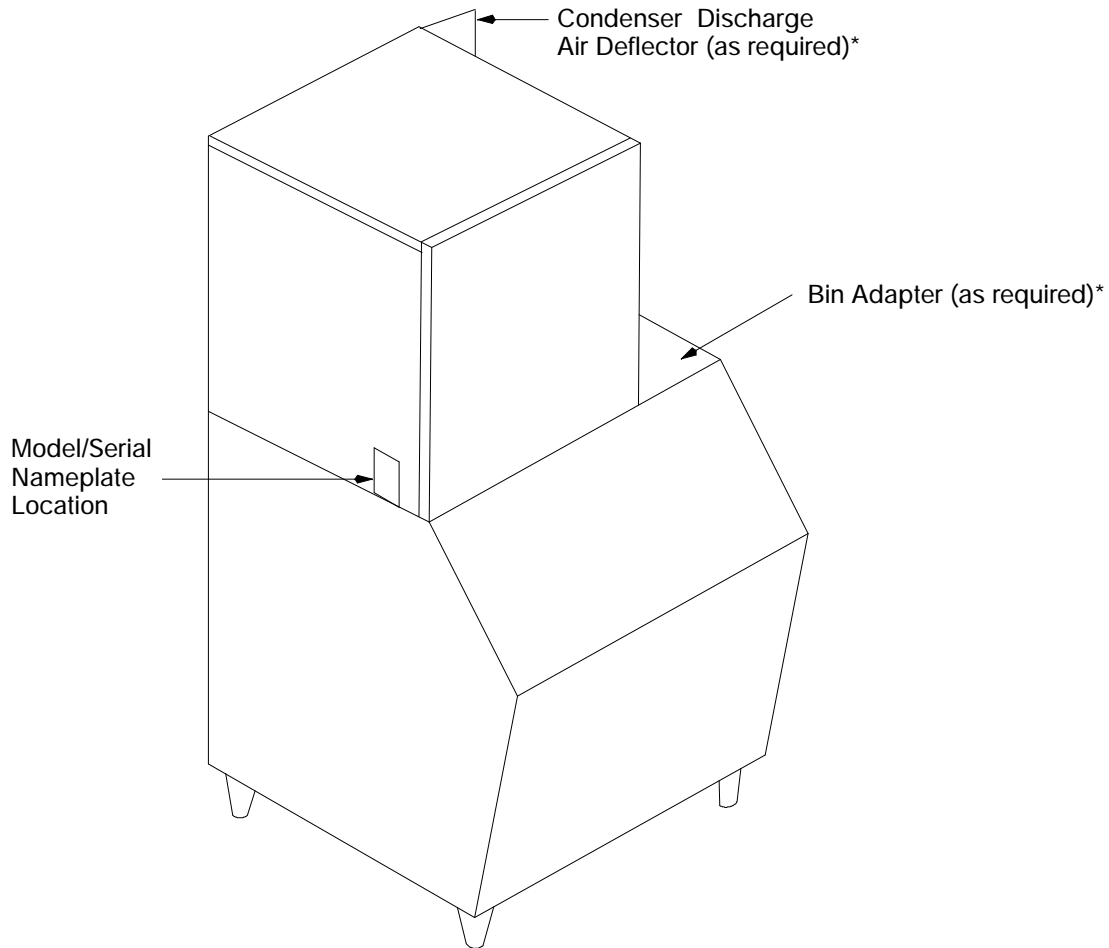
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MODEL & SERIAL LOCATION

"I" Series Cuber



*Bin adapters and condenser discharge air deflector may be required depending on your location or the size of the storage bin.

Record the model number and the serial number of your ice equipment. These numbers are required when requesting information from your local dealer/distributor/service company.

Model Number -

Date Installed -

Serial Number -

Purchased From -

WARRANTY

Warranty Coverage

The following warranty outline is provided for your convenience. For full details, read the warranty bond at the back of this manual.

Exclusions from the Warranty Coverage

The following items are **not** included in the ice machine warranty coverage.

1. Normal maintenance, adjustments and cleaning as outlined in this manual.
2. Repairs due to unauthorized modifications to the ice machine or use of non-standard parts without prior written approval.
3. Damage caused by improper installation of the ice machine, electrical supply, water supply or drainage; floods, storms, or other acts of God.
4. Premium labor rates due to holidays, overtime, etc.; travel time; flat rate service call charges; mileage and miscellaneous tools and material charges not listed on the payment schedule. Additional labor charges resulting from inaccessibility to the ice machine are also excluded.
5. Parts or assemblies subjected to misuse, abuse, neglect or accidents.
6. Damage or problems caused by installation, cleaning and/or maintenance procedures inconsistent with the technical instructions provided in the Installation Manual and this *Owner/Operator Use and Care Guide*.

OWNER'S RECOMMENDED MAINTENANCE

SEMI-ANNUAL MAINTENANCE	
1.	GENERAL ICE MACHINE INSPECTION
2.	CLEANING THE EXTERIOR
3.	CLEANING THE CONDENSER - AIR-COOLED WATER-COOLED
4.	INTERIOR CLEANING - CLEANING PROCEDURES SANITIZING PROCEDURES

1. General Ice Machine Inspection

- Check all water fittings and tubes for leaks. Also, make sure the refrigeration tubing is not rubbing or vibrating against other tubing panels, etc.
- Do not stack anything (boxes, etc.) on or around the ice machine.
- Do not cover the ice machine while it is operating. There must be adequate air flow through and around the ice machine to ensure long component life and adequate ice production.

2. Cleaning the Exterior

1. Clean the area around the ice machine as often as necessary to maintain cleanliness and efficient operation.
2. Sponge dust and dirt off the outside of the ice machine with mild soap and water. Wipe dry with a soft clean cloth.



Warning

Stainless steel panels should be cleaned with mild soap or a commercial stainless steel cleaner. Do not use cleaners containing bleaching agents; they usually contain chlorine which stains stainless steel. Heavy stains should be removed with stainless steel wool. Never use plain steel wool or abrasive pads because they will scratch the panel and cause rusting.

3. CLEANING THE CONDENSER



Caution

Disconnect electric power to the ice machine at the electric service switch box before cleaning condenser!

Air-Cooled Condenser

A dirty condenser restricts airflow which results in excessively high operating temperatures. High operating temperatures reduce ice production and shorten component life. Clean the condenser at least every six months.



Caution

Condenser fins are sharp. Use care when cleaning them.

1. Clean the outside of the condenser with a soft brush or vacuum with a brush attachment. Brush or wash condenser from top to bottom, not from side to side. Be careful not to bend the fins. Shine a flashlight through the condenser to check for dirt between the fins.
2. If further cleaning is required, blow compressed air through the condenser from the inside. Take care not to bend the fan blades. Shine a flashlight through the condenser to check that all the dirt is removed.

IMPORTANT:

Any bent condenser fins must be straightened with a fin comb. Contact your local service agent to do this service.

Water-Cooled Condenser (and regulating valve)

The water-cooled condenser and water regulating valve may require cleaning due to scale build-up.

Low ice production, high water consumption, and high operating temperatures and pressures all may be symptoms of restrictions in the condenser water circuit.

IMPORTANT:

The cleaning procedures require special pumps and cleaning solutions and, therefore, should be performed by qualified maintenance or service personnel.

4. Cleaning the Interior

Approved ice machine cleaners by brand names:

- Lime-A-Way
- Calgon Nickel Safe (green color only)

NOTE:

All ice machine cleaners labeled safe for nickel ARE NOT the brand CALGON NICKEL SAFE.



Caution

Ice machine cleaners are acidic-based chemicals. Before beginning any cleaning of the cuber, the ice in the storage bin or dispenser must be removed.



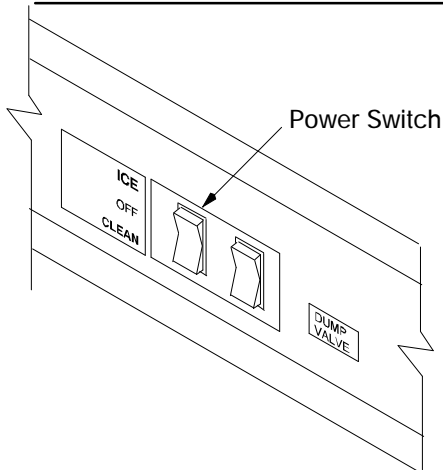
Warning

When using any chemical, rubber gloves and eye protection should be worn.

Prep Clean

Use full-strength ice machine cleaner on a coarse surface material (such as terry cloth) and wipe down the inside wall of the evaporator area, the water pan, the water curtain and evaporator plastic extrusions. If the water distributor tube has heavy scale build-up, remove and soak it in full-strength ice machine cleaner (or exchange the tube and clean the scaled tube at a later date).

Cleaning the Water System & Evaporator



1. Set the switch to CLEAN and allow the ice on the evaporator to release and melt away.
2. Remove all ice from the storage bin.
3. Remove the water curtains, pour 1/2 oz. of ice machine cleaner down the rear key-slot openings. The cleaner will drain into the water pan.
4. Return the water curtains to their proper operating position.
5. Add 3 oz. for a single evaporator, or 5 oz. for a dual evaporator of "Calgon Nickel-Safe" or "Lime-A-Way" ice machine cleaner directly into the water pan. Set switch to CLEAN, circulate for a maximum of 15 minutes
6. Depress and hold the dump switch to allow the cleaner to drain away.
7. Fill the water pan with clean fresh water, circulate for approximately 3 minutes. Depress the DUMP switch and allow the water to drain away. Repeat this procedure 3 times.
8. After third rinse cycle, place product power switch in ice position. Allow product to produce one slab of ice - DISCARD THE ICE.
9. When clean cycle is complete, return cuber to normal operating mode.

Note:

Please Take Note of the Following:

- Ice machines should only be cleaned when needed, not by a timed schedule of every 60 days, etc.
- Should your ice machine require cleaning more than twice a year, consult your distributor or dealer about proper water treatment.

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SANITIZING PROCEDURES

Note: **To be performed only after cleaning the ice machine:**

1. *Add 1/4 ounce (7.08 g) sodium hypochlorite solution (common liquid laundry bleach) to the water pan and allow the pump to circulate the solution for 5 minutes. You may also use a commercial sanitizer such as Calgon Ice Machine Sanitizer following the directions on the product label.
2. Turn the product power switch off. Depress and hold the dump switch to drain the water pan.
3. To sanitize the bin and other surface areas, use 1 ounce of liquid bleach per gallon of water and wipe all areas with the solution. Or use a commercial sanitizer.
4. Place the product power switch in the ice position. Discard the first batch of ice produced.
5. Cleaning and sanitizing are now complete. Product may be returned to normal service.

*Make certain the water curtains are correctly positioned before operating the water pump.

BEFORE CALLING FOR SERVICE

If a problem arises during the operation of your ice machine, follow the checklist below before calling for service.

CHECKLIST

Problem	Probable Cause	Remedy
ICE MACHINE DOES NOT OPERATE	A. No electrical power to ice machine.	A. Replace fuse, reset circuit breaker, turn on main switch.
	B. Tripped high pressure cutout.	B. Reset high pressure cut-out.
	C. ICE/OFF/CLEAN switch set improperly.	C. Set switch at ICE.
	D. Water curtain stuck open.	D. Water curtain must swing freely.
ICE MACHINE STOPS AND CAN BE RESTARTED BY TURNING POWER SWITCH OFF THEN BACK ON AGAIN	A. Safety limit feature stopping ice machine.	A. Refer to safety limit feature.
ICE MACHINE DOES NOT RELEASE ICE OR IS SLOW TO HARVEST	A. Ice machine evaporator dirty.	A. Clean the evaporator, the water system and sanitize ice machine.
	B. Ice machine not level.	B. Level ice machine.
	C. Air-cooled models: low ambient.	C. Minimum ambient is 50°F .
	D. Water regulating valve leaking during harvest mode (water-cooled ice machines).	D. Refer to water-cooled condenser.
POOR QUALITY ICE. (ICE SOFT OR NOT CLEAR)	A. Quality of incoming water.	A. Contact qualified service company to test quality of water and make appropriate filter recommendations.
	B. Water filtration element needs to be changed.	B. Replace filter.
	C. Ice machine dirty.	C. Clean and sanitize ice machine, pages 5 & 6.
	D. Water dump valve not working.	D. Disassemble and clean the water dump valve.
	E. Water softener working improperly (if installed).	E. Repair water softener.

SAFETY LIMIT FEATURE

In addition to standard safety controls such as the high pressure cut-out, your ice machine features built-in safety limits that stop the ice machine if conditions exist that may result in a major component failure.

Before calling for service, restart the ice machine using the following procedures:

1. Turn power switch off and then back to ICE MAKING position. If the safety limit feature has stopped the ice machine, it will restart after a short delay. Proceed to Step 2, but if the ice machine does not restart, refer to “Ice Machine Does Not Operate” in the problem checklist.
2. Let the ice machine operate to determine if the condition recurs...
 - a. If the ice machine stops again, the condition recurred; call for service.
 - b. If the ice machine continues to run, the condition corrected itself; let the machine run.

CORNELIUS LIMITED COMMERCIAL WARRANTY PLAN
TO THE ORIGINAL OWNER OF A CORNELIUS COMMERCIAL CUBE ICEMAKER
This warranty applies to Icemakers installed within the United States, Canada, Mexico and Puerto Rico only.

For warranty information outside the U.S., Canada, Mexico and Puerto Rico, contact your nearest IMI Cornelius Sales Office.

PARTS WARRANTY PERIOD

IMI CORNELIUS INC., hereinafter referred to as CORNELIUS, warrants to the original owner of a new CORNELIUS commercial cube ice machine ("Machine") who buys solely for commercial uses, that the Machine shall be free from defects in material and/or factory workmanship if properly installed, operated and maintained, under normal and proper use and service conditions with competent supervision. The parts warranty period is three years (36 months) from the date of installation or 39 months from the date of shipment by CORNELIUS whichever time period elapses first. With respect to compressor, solid state control board and the evaporator(s), the warranty period will be five years (60 months) from the date of installation or 63 months from the date of shipment by CORNELIUS whichever time period elapses first. Warranty on evaporator plating limited, subject to the incoming water conditions and proper cleaning and maintenance. The obligation of CORNELIUS under this warranty is limited to repair or replacement (at the option of CORNELIUS) FOB factory in Mason City, Iowa of the part (or Parts) of any Machine that is proven defective.

LIMITED LIFETIME WARRANTY

In addition to the above stated parts warranty, Cornelius further warrants the stainless steel cabinet and frame assembly to the original owner at the original installation site against cracks, rust, or corrosion under normal operating conditions. Models IACS50, AC322 and WC322 are excluded from this warranty clause.

LIMITED LABOR WARRANTY PERIOD

In addition to the parts warranty, CORNELIUS will pay scheduled straight time labor to repair or replace a defective component when failure occurs within three years (36 months) from the date of installation or 39 months from the date of shipment by CORNELIUS whichever time period elapses first. Such service is to be performed by a service agency authorized by CORNELIUS. Time and rate schedules for labor compensation will be published periodically by CORNELIUS. **Additional expenses including but not limited to travel time, truck charges, overtime charges, material cost, accessing or removal of the ice machine, normal prescribed maintenance cleaning, adjustments, and ice purchases are the responsibility of the original owner.**

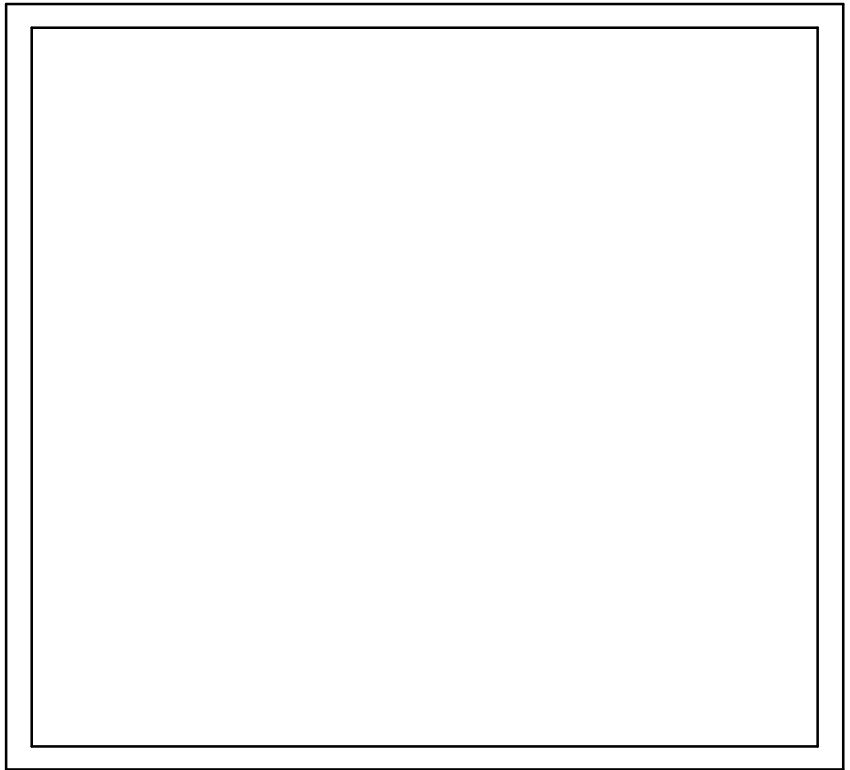
No parts warranty or labor allowance on the motor compressor assembly will apply when the ice machine's refrigeration system is modified with a condenser heat reclaim device, or parts and assemblies not provided by CORNELIUS, unless CORNELIUS provides approval, in writing, for these modifications for specific locations.

The parts warranty shall not apply when destruction or damage is caused by alterations, unauthorized service, using other than factory authorized replacement parts, risks of transportation, accidents, misuse, damage by fire, flood or acts of God. No components or assembly from which the serial number or identification number has been altered or removed will be covered. Any defective parts to be repaired or replaced must be returned to us through a CORNELIUS distributor/dealer, transportation charges prepaid, and they must be properly sealed and tagged. The serial and model number of the Machine and the date of original installation of such Machine must be given. The warranty of repaired or replaced parts will not extend beyond the period of the original warranty. The decision of the CORNELIUS Service Department regarding the warrantability of parts and eligibility for the labor allowance will be final.

IMI CORNELIUS INC
ONE CORNELIUS PLACE
ANOKA, MINNESOTA 55303-6234



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IMI CORNELIUS INC.

Corporate Headquarters:

One Cornelius Place
Anoka, Minnesota 55303-6234
(612) 421-6120
(800) 238-3600

