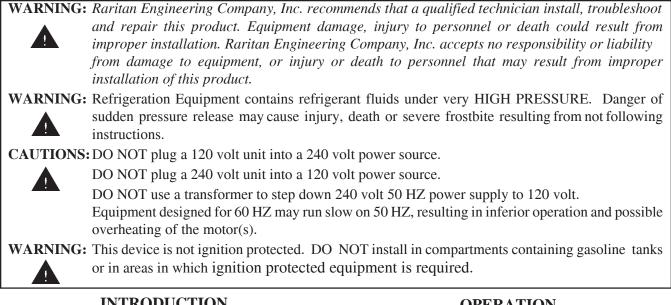


INSTALLATION, OPERATION, MAINTENANCE AND TROUBLESHOOTING



INTRODUCTION

Model 84 and 85 Icer-ettes are CFC-Free automatic icemakers designed and manufactured especially for the marine environment. They produce up to 22 lbs (10kg) of crescent shaped ice per day and can store 11 lbs (5kg). Model 84 is designed for installations where less than counter height is available and the 85 is designed for counter height installaions. Each model has a flush mount option which prevents the door from extending beyond the cabinets. Installation and maintenance are simple because no drain is required and the thermostat is fixed; never needing adjustment.

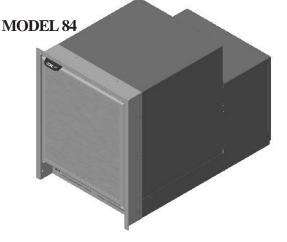


OPERATION

The Icer-ette's on-off switch is just beneath the door. A unit begins to produce ice within 60 minutes after start-up. Ice production stops automatically when the bucket is full enough to interfere with the wire shutoff arm. The unit should not be turned "off" with the door closed and ice or water inside.

NOTES:

- 1. Due to fast freezing, ice cubes may appear "cloudy". This is trapped air in the water and does not affect the taste or quality of the ice.
- 2. "Hollow" ice cubes may result from fastfreezing under certain climatic conditions such as high humidity, etc. and is not an indication of a problem with the icemaker.



MAINTENANCE

- $\sqrt{}$ Periodically vacuum dust and dirt from the condenser, located behind the grille at the bottom front of the unit.
- $\sqrt{}$ Regularly inspect plumbing connections to insure that no leaks are present.

When necessary, defrost and thoroughly clean the inside of the unit with mild soap and water. Do not use electrical heating devices, sharp or pointed tools when defrosting.

When defrosting or leaving the unit turned off, prop and leave the door open using door prop. This allows air to dry the inside of the cabinet, reducing the chance for mildew and damage to the mold mechanism's components.

WINTERIZING

WARNING: Disconnect power at source before working on the unit. Do not winterize this unit with ANY type of anti-freeze; damage to the mold coating will occur, invalidating product's Limited Warranty and creating potential health hazard.

- 1. Shut off the water supply to the unit.
- 2. Disconnect as follows:

Model 85: Disconnect water supply connector behind front grille at solenoid valve (garden hose connector). Remove white plastic tubing and nut from bottom of solenoid valve.

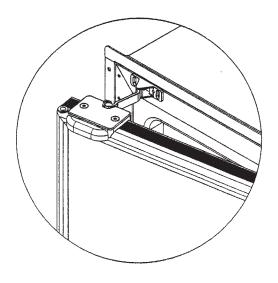
Model 84: Disconnect the in-line water supply connector behind the front grille.

3. Turn power on. Allow unit to run for an hour. Remove any cubes that may have been ejected

during this period. Turn off power and prop door open to allow the inside to defrost. After it has defrosted, wipe it dry and leave door open using door prop.

RECOMMISSIONING

Connect water supply lines, turn on water, check for leaks, then restore power to the unit. After initial cool down of 45-60 minutes, the unit will cycle approximately every 40 minutes.



START-UP

Turn on water, check for leaks and then turn on power. Turn on switch (located just below Icer-ette door). Fan and compressor will normally turn on immediately, resulting in air circulation through the grille and a faint hum from the compressor. If machine was shut off while in ice harvesting cycle, it will have to complete the cycle before compressor and fan turn on (approximately 5 minutes). Interior temperature will drop below freezing. First harvest of ice should occur within 60 minutes of start-up. After lines are purged of air, normal harvesting and refilling occur every 40 minutes or less, under normal conditions.

MOUNTING

Required Cabinet Opening: Model 84: 14 3/8'' W x 18 1/2''H Model 85: 14 3/8'' W x 24 5/8''H

WARNING: If rubber feet are removed from the bottom of 85 series units, the mounting screws must be reinstalled into the bottom of the cabinet to avoid damage to components mounted to the base pan.

If unit is to be built-in, 3/4" (2cm) or more must be allowed behind the unit for water line and plug clearance for proper operation. Built-in units are designed for zero clearance at the top and each side of the unit. Fan-forced condenser cooling is used. This requires air circulation through lower section of unit (see Fig. #1). If Icer-ette is to be installed behind closed doors, contact Raritan Technical Support.

CAUTION: Any restriction of airflow or ventilation will disrupt normal operation of the unit, resulting in damage to components and voids warranty.

Unit must sit on a secure level surface. Mounting flange must NOT be used to support the unit's weight.

When installing the unit it should be noted that some servicing requires access to the rear of the unit and that *the unit must be readily removable* should servicing be necessary.

When mounting unit within cabinetry, make sure that the door has the desired range of motion. All doors are hinged on the right (facing the unit) but may be reversed in the field.

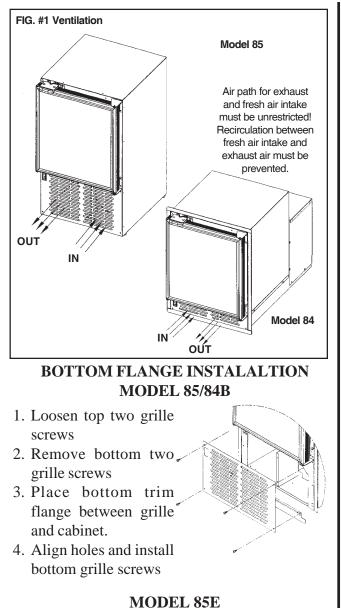
PLUMBING

A minimum of 22 P.S.I. (152kPa) is required for proper operation of the water valve (see #26, page 4). When plumbing Icer-ette, 18" (45cm) of water line extends from the back with a 1/4" plastic female compression fitting. Drains are not required; just a water supply.

WIRING

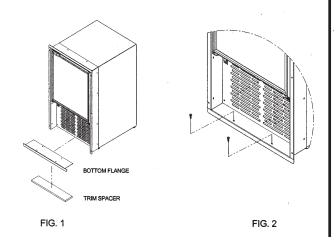
WARNING: HAZARD OF ELECTRIC SHOCK - Never use extension cords or plug adapters to power unit. Never remove the ground prong from the plug.

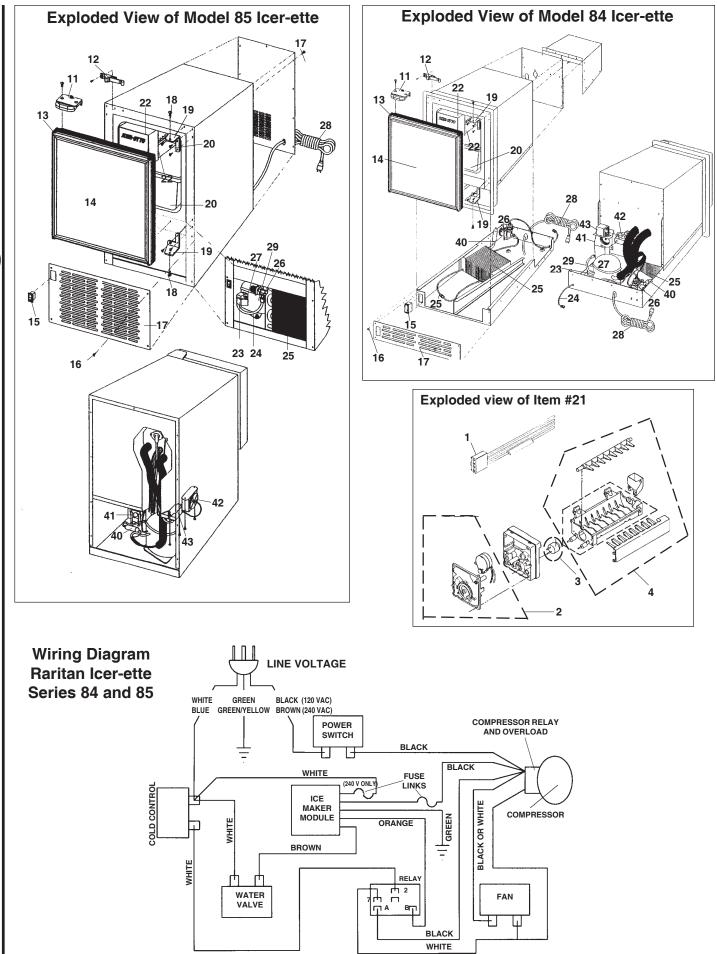
Power Requirements: 120 volts 60 HZ AC (alternating current); a three-wire cord with grounded plug is supplied, <u>OR</u>: 240 volts 50 HZ AC (alternating current), supplied with Euro-plug.



Once unit is installed in cabinet

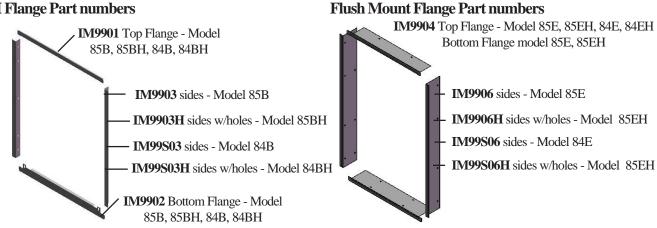
- 1. Attach trim spacer to bottom flange
- 2. Slide bottom flange in place.
- 3. Secure with 2 screws.





ltem	Description	Model 84	Model 84 220V	Model 85	Model 85 240V
1	Wiring Harness	I44	I44220	I44	I44220
2	Module Assy. (628366)	I34M-1	I34M220	I34M-1	I34M220
3	Thermostat	I34T	I34T	I34T	I34T
4	Icemaker Mold w/thermostat	I34MH	I34MH220	I34MH	I34MH220
11	Handle Latch Assy.	IM135	IM135	IM135	IM135
12	Catch/Prop Assy.	IM130	IM130	IM130	IM130
13	Nylon Snap Bushing - Black Nylon Snap Bushing - White	I2101 I21	I2101 I21	I2101 I21	I2101 I21
14	S/S Door Assy. White laminate Door Assy. Black Laminate Door Assy. Neutral White Laminate Door Assy.	IM215W IM216W IM217W IM218W	IM215W IM216W IM217W IM218W	IM215W IM216W IM217W IM218W	IM215W IM216W IM217W IM218W
15	On-Off Rocker switch	I37S	I37S	I37S	I37S
16	8-32 x 1/2 hex head type F 18-8 s/s screws	173	173	173	173
17	Grille	IM9S01	IM9S01	IM901	IM901
18	Top screw 1/4-28 x 1/2 Bottom screw 1/4-28 x 5/8 hex head	F181 CH51	F181 CH51	F181 CH51	F181 CH51
19	Hinge Set Top & Bottom	IM13W	IM13W	IM13W	IM13W
20	Ice Bucket	190	190	190	190
21	Ice Maker	I34W	I34220W	I34W	I34220W
22	Ice Maker Front Cover	I34A	I34A	I34A	I34A
23	Relay w/overload protector	I1806-1	I1806-2	I1806-1	I1086-2
24	Water line tubing	193SW	193SW	193	193
25	Condenser Coil	I24S	I24S	I24	I24
26	Water Valve	I34B	I34B220	I34B	I34B220
27	Compressor (includes #29 and #40)	I1800A-1W	I1800A-2W	I1800A-1W	I1800A-2W
28	Power Cord	I41	I41220	I41	I41220
29	Service valve w/tube	I101	I101	I101	I101
40	Drier	I30A01	I30A01	I30A01	I30A01
41	Motor and/or Blower Assy.	I28	128220	125	I25220
42	C old C ontrol	I33A	I33A	I33A	I33A
43	Reby	I52	152220	152	152220

BI Flange Part numbers



BE SURE TO READ THE FOLLOWING PARAGRAPH BEFORE ATTEMPTING ANY TROUBLESHOOTING OR REPAIR OF ICER-ETTE UNITS.

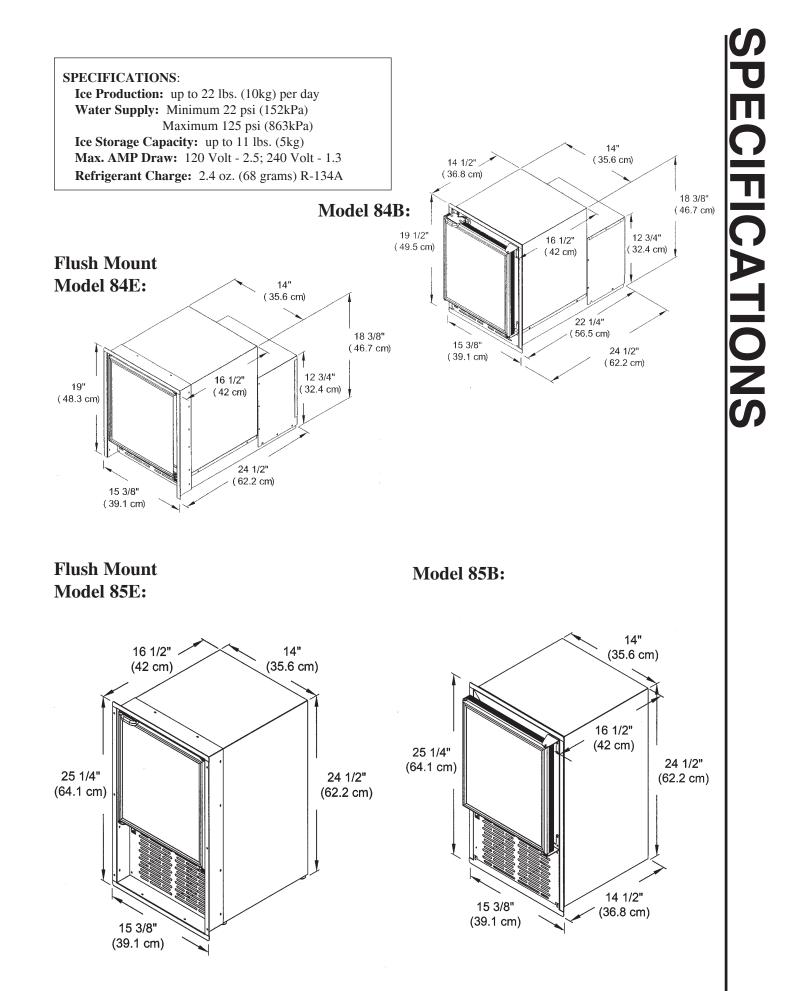
WARNING: It is recommended that only a qualified refrigeration technician perform service on Icer-ettes. Because of high voltage, high pressure refrigeration, and presence of water in the unit, a person who is not technically qualified may be subject to electric shock hazard. If the Icer-ette is wired to a junction box or otherwise direct to the AC power supply, the appropriate circuit breaker must be turned off to cut the power to the machine. TURNING THE ON-OFF SWITCH TO THE "OFF" POSITION DOES NOT DISCONNECT THE UNIT FROM THE POWER SOURCE AND THE DANGER OF ELECTRIC SHOCK WILL REMAIN.

This Troubleshooting Section is to be used only as a guideline to assist in determining any problem. Raritan does not guarantee that the recommendations or corrections listed below will correct the problem.

PROBLEM	POSSIBLE CAUSE	CORRECTION	
1. Compressor and fan not run-	1A. No AC power - check breaker.	1A. Turn on breaker to restore power.	
ning.	1B. AC power switch.	1B. Check for loose connections. Replace switch if	
-	_	needed.	
	1C. Compressor Relay.	1C. Replace Compressor Relay.	
	1D. Module.	1D. Replace icemaker module.*	
	1E. Cold control.	1E. Replace cold control.*	
2. Icer-ette will not get cold	2A. Compressor.	2A. Return to Raritan for compressor replacement.	
enough to freeze cubes in	2B. Refrigerant leak in system.	2B. Contact Raritan Technical Support.	
the mold.	2C. Fan motor.	2C. Replace fan motor.*	
	2D. Dust clogged in condenser.	2D. Clean Condenser (see maintenance section).	
	2E. Jammed fan.	2E. Straighten fan brackets.	
	2F. Refer to 1 above.	2F. Refer to 1A, B and C.	
	2G. Module	2G. Replace icemaker module.*	
3. Icer-ette freezes but water	3A. Nonfunctioning water valve	3A. Clean or replace solenoid valve assembly.	
does not come into mold; no	assembly.		
ice production.	3B. Mold heater assembly.	3B. Contact Raritan Technical Support.	
-	3C. Water supply turned off.	3C. Provide pressurized water.	
	3D. Icemaker module.	3D. Replace icemaker module.	
	3E. Cold control.	3E. Replace cold control.	
	3F. Bad wiring harness plug contacts.	3F. Contact Raritan Technical Support.*	
4. Icer-ette will freeze cubes	4A. Ice mold thermostat.	4A. Replace ice mold thermostat.*	
but will not eject them.	4B. Icemaker module.	4B. Replace icemaker module.*	
	4C. Ejector relay.	4C. Replace ejector relay.	
	4D. Mold and heater assembly.	4D. Replace icemaker module.*	
	4E. Bad wiring harness plug contacts.	4E. Contact Raritan Technical Support.*	
5. Icer-ette stops in mid-ejec-	5A. Limit switch in wire harness.	5A Contact Raritan Technical Support.*	
tion cycle; compressor will	5B. Icemaker module.	5B. Replace icemaker module.*	
not come back on.	5C. Power supply.	5C. Check connections.	
	5D. Mold and heater assembly.	5D. Replace icemaker module.	
	5E. Bad wiring harness plug contacts.	5E. Contact Raritan Technical Support.*	
6. Icer-ette makes and ejects	6A. Ice mold thermostat.	6A. Replace ice mold thermostat.*	
cubes but at a very slow	6B. Fan motor.	6B. Replace fan motor.*	
rate.	6C. Ventilation poor.	6C. Check installation section.	
	6D. Dust clogged in condenser.	6D. Clean condenser (see maintenance section).	
	6E. Too much water in mold.	6E. Contact Raritan Technical Support.	
	6F. Ejector relay.	6F. Replace ejector relay.	
7. Icer-ette frosts up inside and	7A. Broken door gasket.	7A. Replace door gasket.	
has to be defrosted often.	7B. Door left open.	7B. Defrost as needed.	
8. Excessive accumulation of	8A. Solenoid valve assembly.	8A. Replace solenoid valve assembly.	
ice; water overflows the ice	8B. Icemaker module.	8B. Replace icemaker module.*	
mold and runs into storage	8C. Filler tube alignment.	8C. Adjust to prevent splash over.	
bucket; solid block of ice.	8D. Icemold thermostat.	8D. Replace icemold thermostat.*	

* See visual aid reference at www.raritaneng.com/tech support/repair shop

NOTE: Model 84 Icemakers must have back enclosure #30 reinstalled before operating or testing unit. Unit will not operate or test satisfactorily without enclosure in place.



SAVE THESE INSTRUCTIONS

Should a problem arise, please feel free to contact Raritan Technical Support at either the Millville, NJ or Fort Lauderdale, FL office.

LIMITED WARRANTY

- Raritan Engineering Company warrants to the original purchaser that this product is free of defects in materials or workmanship for a period of one year from the product's date of purchase. Should this product prove defective by reason of improper workmanship and/or materials within the warranty period, Raritan shall, at its sole option, repair or replace the product.
- TO OBTAIN WARRANTY SERVICE, Consumer must deliver the product prepaid, together with a
 detailed description of the problem, to Raritan at 530 Orange St., Millville, N.J. 08332, or 3101 SW 2nd
 Ave. Ft. Lauderdale, FL 33315. When requesting warranty service, purchaser must present a sales slip
 or other document which establishes proof of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION PRECEDENT OF WARRANTY COVERAGE. However,
 please complete and return the owner Registration Card so that Raritan can contact you should a question
 of safety arise which could affect you.
- 2. THIS WARRANTY DOES NOT COVER defects caused by modifications, alterations, repairs or service of this product by anyone other than Raritan; defects in materials or workmanship supplied by others in the process of installation of this product; defects caused by installation of this product other than in accordance with the manufacturer's recommended installation instructions or standard industry procedures; physical abuse to, or misuse of, this product. This warranty also does not cover damages to equipment caused by fire, flood, external water, excessive corrosion or Act of God.
- 3. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY FOR BREACH OF CONTRACT WHICH BUT FOR THIS PROVISION MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. ALL IMPLIED WARRAN-TIES SUCH AS THOSE OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, IF APPLICABLE, AS WELL AS ANY IMPLIED WARRANTIES WHICH MIGHT ARISE BY IMPLICATION OF LAW, ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG A LIMITED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
- 4. UNDER NO CIRCUMSTANCES SHALL RARITAN BE LIABLE TO PURCHASER OR ANY OTHER PERSONS FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARIS-ING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSE-QUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
- 5. No other person or entity is authorized to make any express warranty, promise or affirmation of fact or to assume any other liability on behalf of Raritan in connection with its products except as specifically set forth in this warranty.
- 6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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