

INTRODUCTION

To the owner or user: The service manual you are reading is intended to provide you, and the maintenance or service technician, with the information needed to install, start up, clean, maintain, and service this ice system.

The NME1250R is a remote condenser modular ice system that features: front service for the freezer, gearmotor, control box, water reservoir, and bin control; an electronic circuit for monitoring ice and water level; a thermostatic expansion valve; and HP62 as the refrigerant.

Table of Contents

FOR THE INSTALLER: Remote Condenser 3

FOR THE PLUMBER 7

FOR THE ELECTRICIAN 8

FOR THE INSTALLER: Completed Installation 9

FOR THE INSTALLER: Final Check List 10

START UP 11

COMPONENT DESCRIPTION 12

ELECTRICAL SEQUENCE 14

OPERATION 15

MAINTENANCE AND CLEANING 19

ICEMAKER MAINTENANCE: 20

SERVICE DIAGNOSIS: Condition - No Ice Being Produced 22

SERVICE DIAGNOSIS: Condition - Low Ice Production 26

REMOVAL AND REPLACEMENT 27

REMOVAL AND REPLACEMENT: Bearing And Breaker 28

REMOVAL AND REPLACEMENT: Auger 29

REMOVAL AND REPLACEMENT: Evaporator & Water Seal 30

REMOVAL AND REPLACEMENT: Evaporator 31

REMOVAL AND REPLACEMENT: Gearmotor 32

REFRIGERATION SERVICE: HP62 33

ELECTRONIC CONTROL TESTER 35

Parts Lists and Wiring Diagrams are located in the center of this manual, printed on yellow paper.
This manual was printed on recycled paper.
Keep it for future reference.

Note this symbol when it appears.



It marks a possible hazard.

NME1250R

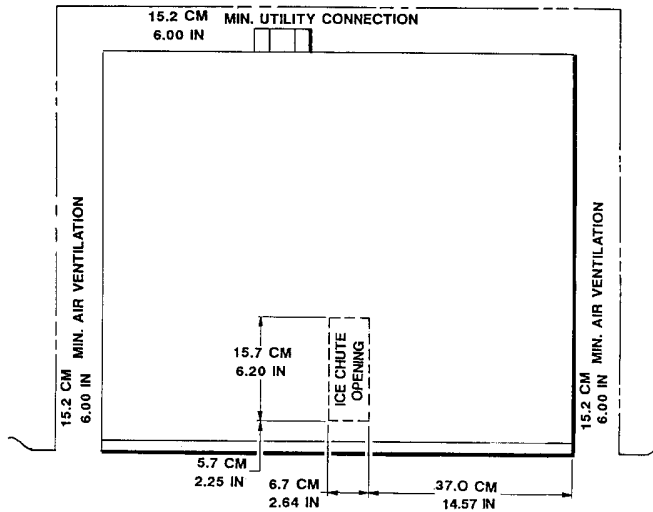
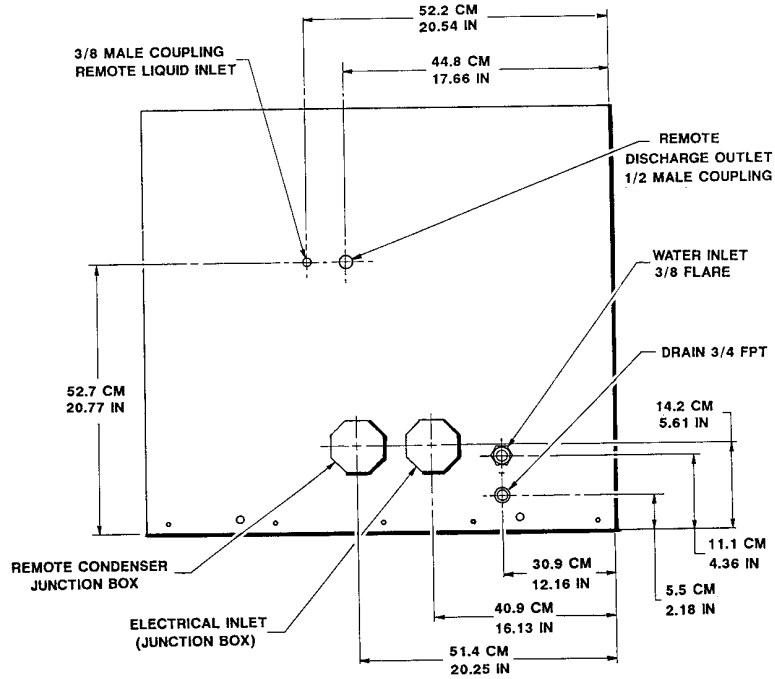
FOR THE INSTALLER

These machines are designed to fit the following Scotsman storage bins:

- B90 and extensions
(with bin top KBT18)
- HTB555 or BH550
- BH800 using bin top
KBT23
- BH900 using bin top
KBT22

When installing a new system, check to be sure that you have everything you need before beginning:

- Correct Condenser
- Correct Bin & Bin Top (if required)
- Correct Ice Machine
- Correct Precharged line set
- All kits, legs, and information required for the specific job.



SPECIFICATIONS: ICEMAKER

MODEL	DIMENSIONS (without bin)	COND. TYPE	Refrigerant Charge (HP62)	ICE TYPE	BASIC ELECTRICAL	MINIMUM CIRCUIT	MAXIMUM FUSE SIZE
NME1250RE-32A	27 x 30 x 24	REMOTE-	208 ounces	NUGGET	208-230/60/1	17.3	25

+ Minimum Circuit Ampacity is used to determine wire size per National Electric Code.

The standard finish is enamel. A stainless steel panel kit, SPKCMD-1, may be field installed to convert the unit to a stainless steel finish.

FOR THE INSTALLER: Remote Condenser

Installation Limitations:

This ice system is designed to be installed indoors, in a controlled environment:

	Min.	Max.
Air Temperature	50 ⁰ F	100 ⁰ F
Water Temperature	40 ⁰ F	100 ⁰ F
Water Pressure	20 psi	80 psi
Voltage	5%	+10%

(Compared to the nameplate)

The temperature limitations do not apply to the remote condenser. It will work between -20 degrees F, and 120 degrees F.

Operating the machine outside of the limitations is misuse and can void the warranty.

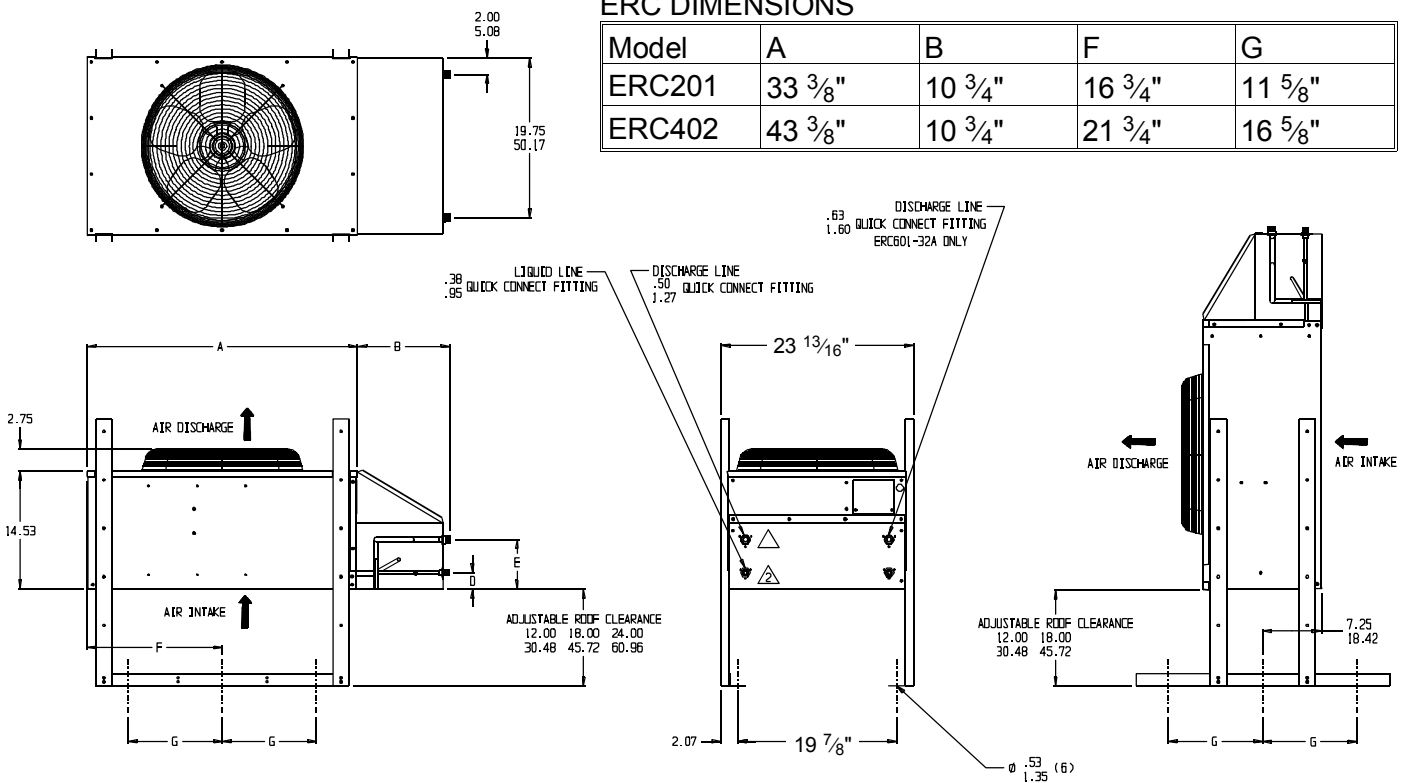
Scotsman Ice Systems are designed and manufactured with the highest regard for safety and performance. They meet or exceed the standards of UL, NSF, and CSA.

Scotsman assumes no liability or responsibility of any kind for products manufactured by Scotsman that have been altered in any way, including the use of any part and/or other components not specifically approved by Scotsman.

Scotsman reserves the right to make design changes and/or improvements at any time.

ERC DIMENSIONS

Model	A	B	F	G
ERC201	33 3/8"	10 3/4"	16 3/4"	11 5/8"
ERC402	43 3/8"	10 3/4"	21 3/4"	16 5/8"



SPECIFICATIONS: REMOTE CONDENSER

Model	Use with	Basic Electrical
RCE651-32	1 NME1250R	208-230/60/1
ERC201-32	SAME	208-230/60/1
RCE652-32	1 or 2 NME1250Rs*	208-230/60/1
ERC402-32	SAME	208-230/60/1

RTE25 Precharged line set, 25'. R-404A

RTE40 Precharged line set, 40'. R-404A

* Two units on one condenser requires a fan relay kit.

Icemaker Nameplate Located On Back Panel
Serial Plate Located Behind Front Panel

MODEL NUMBER
SERIAL NUMBER
A.C. SUPPLY VOLTAGE
MINIMUM CIRCUIT AMPACITY
MAXIMUM FUSE SIZE *
HEATER WATTS
REFRIGERANT
MOTORS
COMPRESSOR
FAN
DRIVE
OTHER
DESIGN PRESSURE
 * OR HACR TYPE CIRCUIT BREAKER

CHARGE
RLA/FLA W/HP.
LRA

WIRES
HERTZ
PHASE

UL LISTED **SP** **NSF**

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NME1250R

FOR THE INSTALLER

Location:

After uncrating and inspection, the unit is ready for installation. It is important that the machine be installed in a location where it has enough space around it to be accessible for service, usually a minimum of 6 inches. Try to avoid hot, dirty and crowded locations. Be sure that the location for the machine is within the limitations described on page 3.

Storage Bin:

Tip the storage bin on its back, using parts of the carton to protect the exterior finish. Install the legs into the threaded holes in the bottom of the bin. Turn the leg levelers all the way in preparation for leveling later. Return the bin to the upright position, remove paper covering the bin gasket.

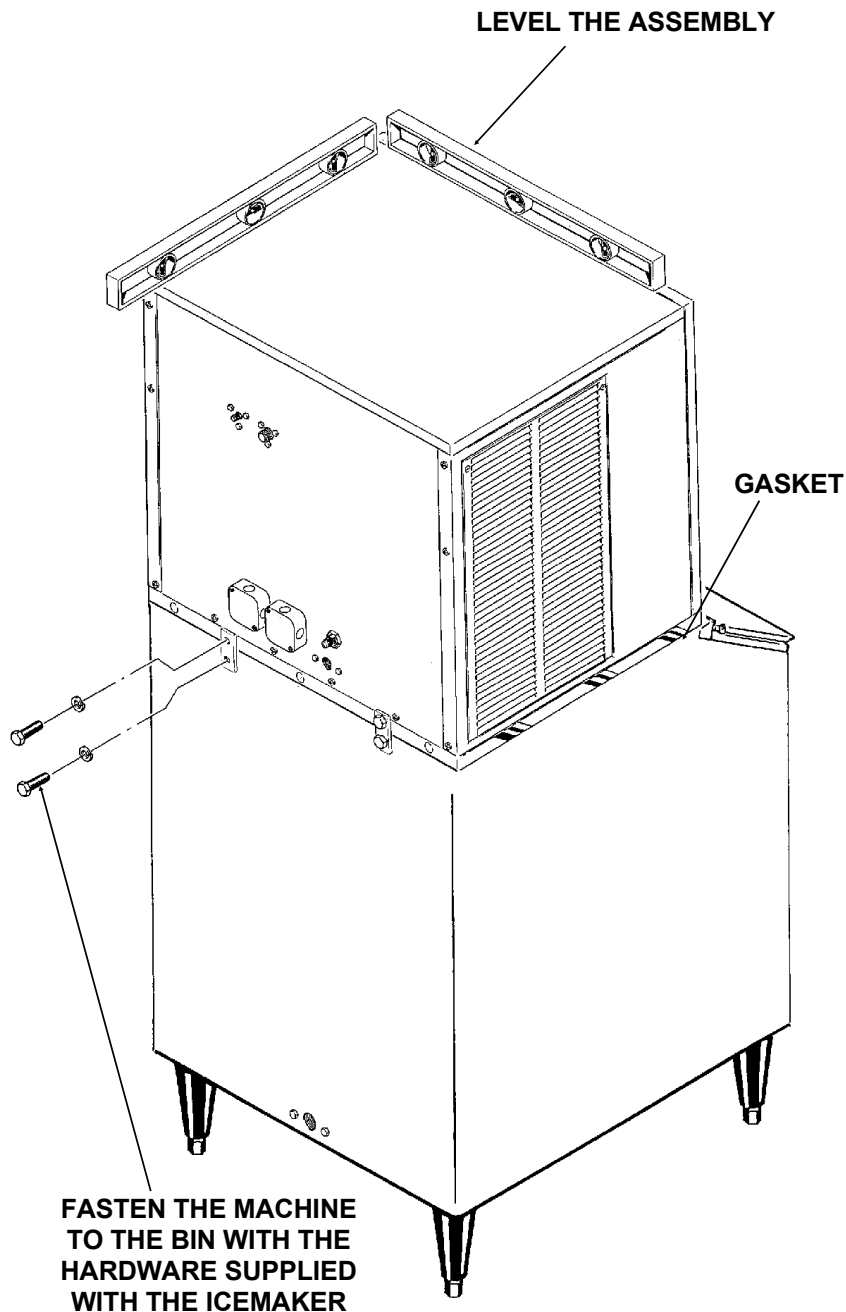
Install bin top if required, follow the directions included with the bin top.

Note: Do not push bin into position, but lift it there. Pushing a bin, especially one with ice in it, can cause damage to the legs and the leg mounts.

Ice Maker:

The machine is heavy, so the use of a mechanical lift is recommended for lifting the machine high enough to install on top of the bin. After the unit is placed on top of the bin, line it up so it is even with the back, left, and right sides. Secure the machine to the bin with the hardware provided with the machine.

Remove the front panel and remove the styrofoam shipping blocks from under the gearmotor, the top of the ice chute, and from between the gearmotor and the right side panel.



FOR THE INSTALLER: Remote Condenser Installation

Location:

Limited to a 40 foot or a 25 foot length of precharged refrigerant tubing connecting the icemaker to the remote condenser. The condenser must be above or level with the icemaker.

Select the best available location, protecting the condenser from extremes of dirt, dust, and sun.

Meet all applicable building codes. Usually the services of a licensed electrician are required.

Roof Attachment:

1. Install and attach the remote condenser to the roof of the building, using the methods and practices of construction that conform to the local building codes, including having a roofing contractor secure the condenser to the roof.
2. Have an electrician connect the remote condenser fan motor to the icemaker, using the junction box at the back of the icemaker.

Any excess tubing **MUST** be retained within the building.

4. Spiral the excess length of pre charged tubing inside the building. Use a horizontal spiral (as illustrated) to avoid any traps in the lines.

Note: spiral need not be as tight as illustrated.

5. Have the roofing contractor seal the holes in the roof per local codes.

PRECHARGED LINE ROUTING

//////////CAUTION//////////

Do not connect precharged tubing until all routing and forming of the tubing is complete. See the coupling instructions, next page for connecting instructions.

//////////

1. Each set of precharged refrigerant lines (either 25 foot or 40 foot) consists of a 3/8 inch diameter liquid line and a 1/2 inch diameter discharge line. Both ends of each line have quick connect couplings, one end has a schrader valve connection, that end goes to the condenser.

Note: The openings in the building ceiling or wall, listed in the next step, are the minimum sizes recommended for passing the refrigerant lines through.

2. Have the roofing contractor cut a minimum hole for the refrigerant lines of 1 3/4 inch. Check local codes, a separate hole may be required for the electrical power to the condenser.

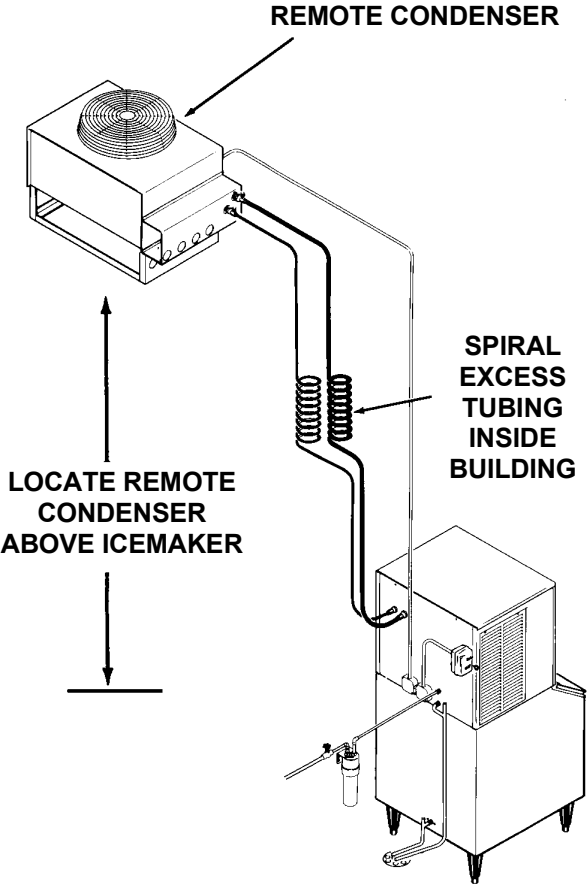
//////////CAUTION//////////

DO NOT KINK OR CRIMP REFRIGERANT TUBING WHEN INSTALLING IT.

//////////

3. Route the refrigerant lines through the roof opening.

Follow straight line routing whenever possible.



NME1250R

FOR THE INSTALLER

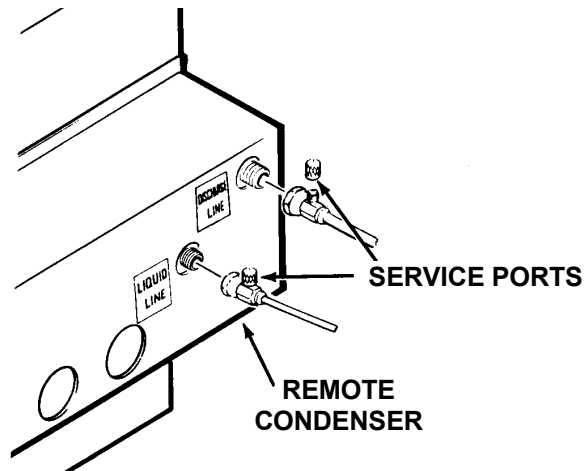
COUPLING INSTRUCTIONS

////////////////////CAUTION////////////////////

The couplings on the sets of precharged lines are self sealing when installed properly. Carefully follow the instructions:

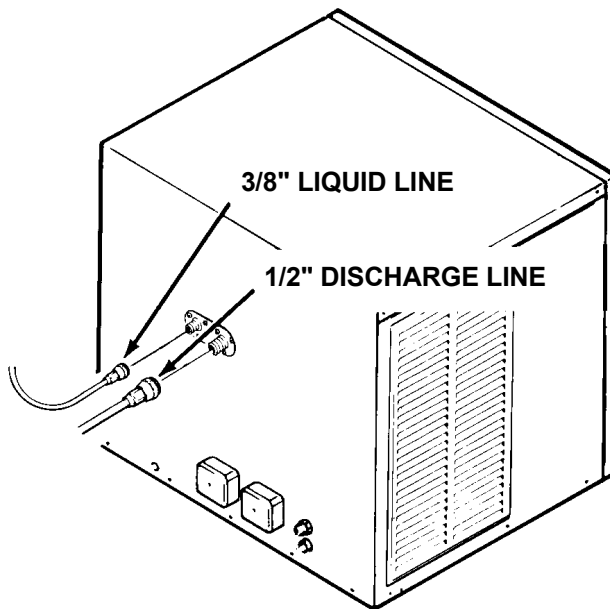
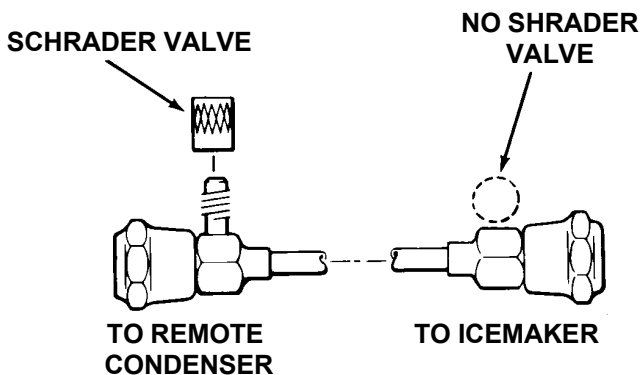
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1. Remove the protector caps and plugs. Wipe the seats and threaded surfaces with a clean cloth to be certain that no foreign matter remains on them.
2. Lubricate the inside of the couplings, especially the O-Rings with refrigerant oil.
3. Connect the couplings to the fittings:
 - The 3/8 inch liquid line (schrader valve end) to the remote condenser fitting marked "liquid line".
 - Connect the other end of the liquid line to the icemaker fitting marked "liquid line."
 - Connect the 1/2 inch discharge line (schrader valve end) to the remote condenser fitting marked "discharge line".
 - Connect the other end of the liquid line to the icemaker fitting marked "liquid line".
4. Begin tightening the couplings together by hand, then using two wrenches (it is important that ONLY the nut on the precharged lines be turned, the other parts of the couplings must NOT be allowed to turn or the process will tear out the diaphragms and they will be loose in the refrigeration system) tighten the coupling until it bottoms out or a definite increase in resistance is felt.



5. Using a marker or pen, mark a line lengthwise from the coupling union nut to the bulkhead. Then tighten the coupling and additional 1/4 turn. As the nut turns, the line will show when 1/4 turn is made.
6. After all connections are made, and after the king valve has been opened, check the couplings for leaks.

Note: The system charge is contained in the machine's receiver. Holding charges of the same refrigerant are present in the remote condenser and pre-charged line sets.



FOR THE PLUMBER

CONFORM TO ALL APPLICABLE CODES

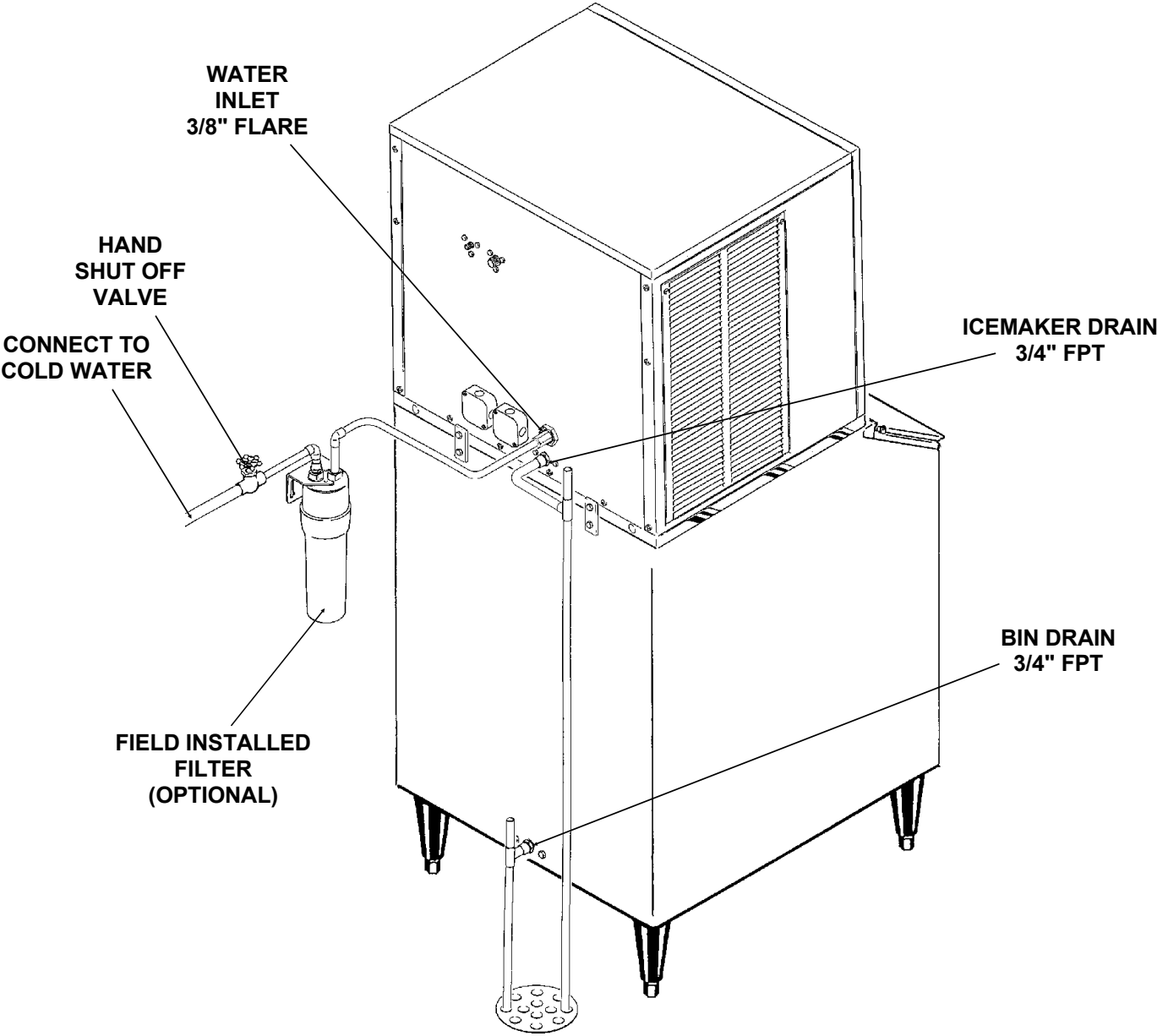
Water Inlet

The recommended water supply is cold water. Use 3/8" O.D. copper tubing, connect to the 3/8" male flare at the back of the cabinet. Install a hand valve near the machine to control the water supply.

Drains

There is one 3/4" FPT drain at the back of the cabinet, the drain line is of the gravity type, and 1/4 inch per foot fall is an acceptable pitch for the drain tubing. There should be a vent at the highest point of the drain line, and the ideal drain receptacle would be a trapped and vented floor drain. Use only 3/4" rigid tubing.

Storage Bin: A separate gravity type drain needs to be run. Insulation of this drain line is recommended.



NME1250R

FOR THE ELECTRICIAN

CONFORM TO ALL APPLICABLE CODES

The electrical power to the unit is supplied through the junction box at the rear of the machine.

Check the nameplate (located on the back panel) for the voltage requirements, and for the minimum circuit ampacity.

The machine requires a solid chassis to earth ground wire.

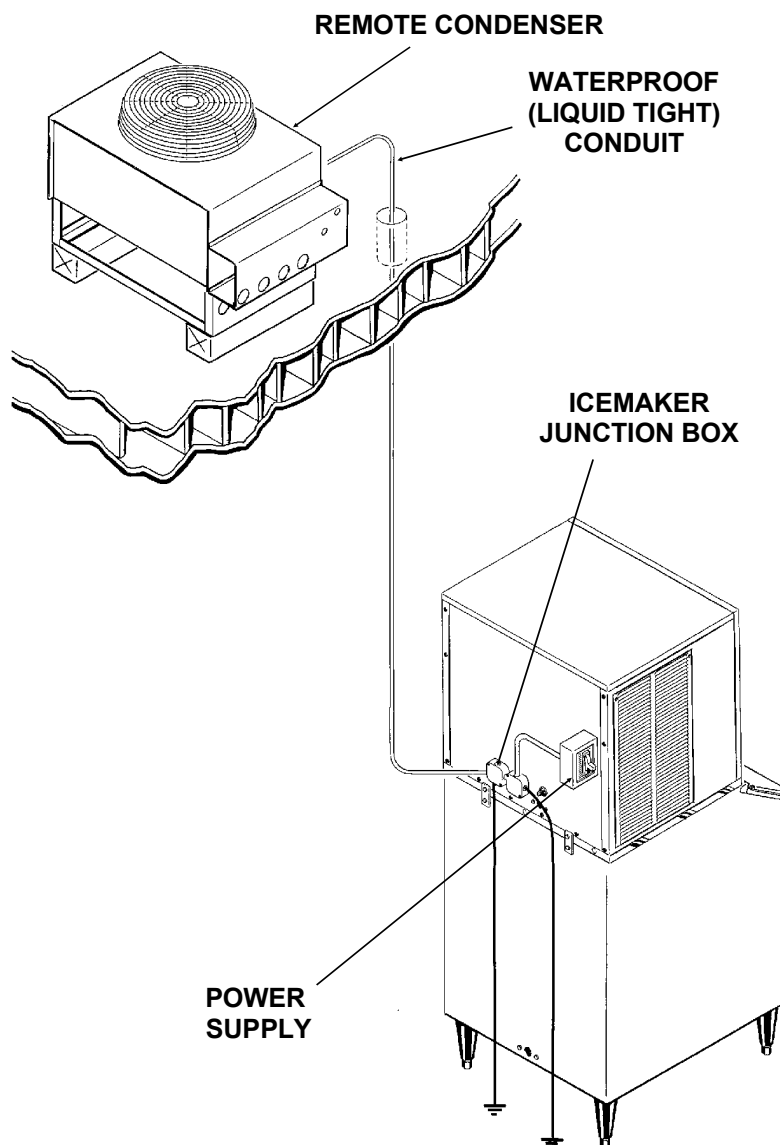
The ice maker should be connected to its own electrical circuit so it would be individually fused. Voltage variation must remain within design limitations, even under starting conditions.

Electrically the remote condenser fan motor is connected to the icemaker at the contactor terminals for the compressor and the fan motor operates whenever the compressor operates.

Electrical connections are made at the junction box at the back of the icemaker and at the junction box on the remote condenser.

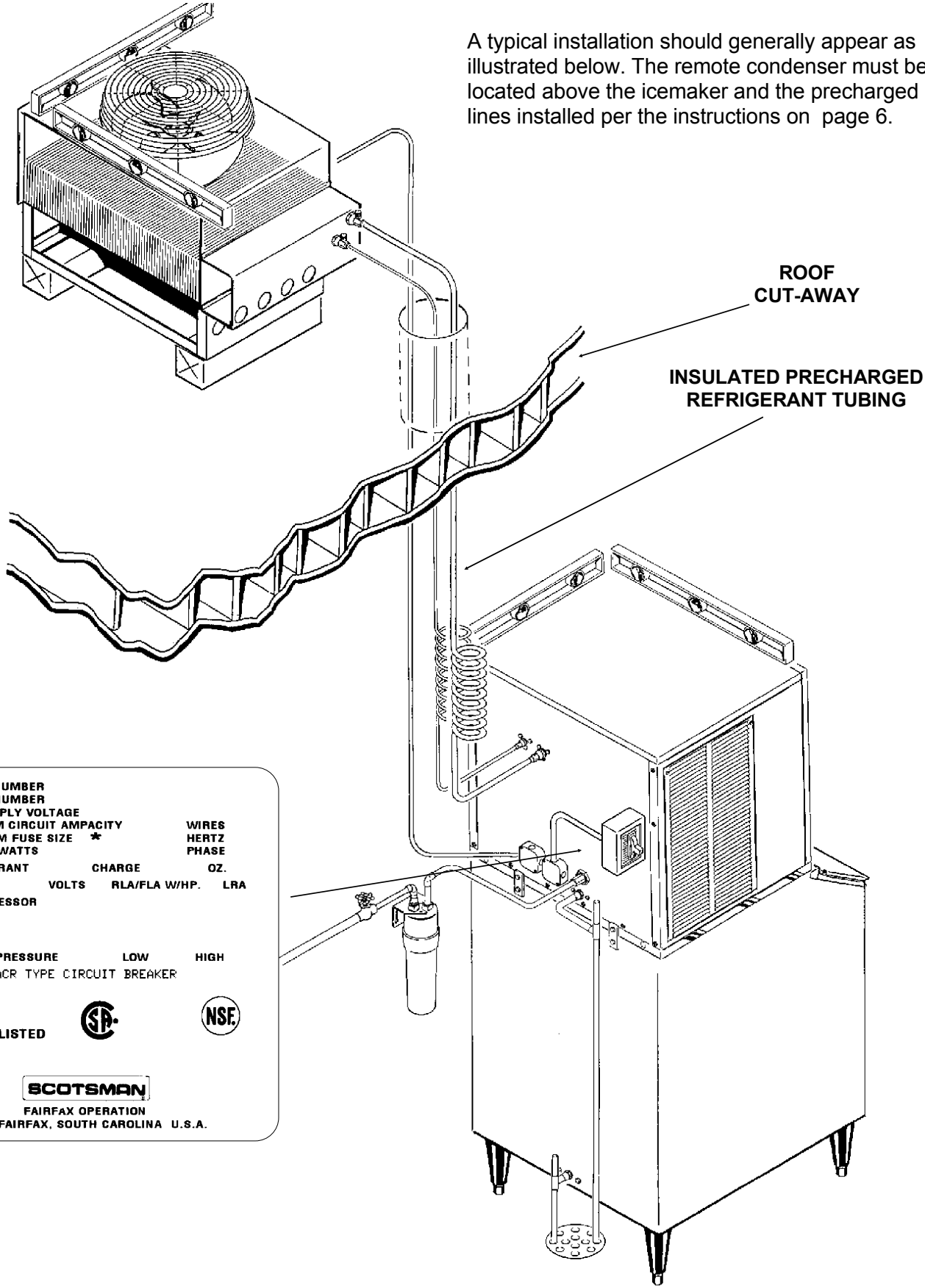
The remote condenser must be wired to the icemaker in accordance with local and national electrical codes with a minimum of 18 Awg. wire with an ground bonding wire connected to the ground screws provided in both the condenser and machine field wiring boxes. All outdoor wiring must be in rainproof conduit.

All external wiring must conform to national, state, and local electrical codes. The use of a licensed electrician is required to perform the electrical installation.





FOR THE INSTALLER: Completed Installation

A typical installation should generally appear as illustrated below. The remote condenser must be located above the icemaker and the precharged lines installed per the instructions on page 6.



MODEL NUMBER		
SERIAL NUMBER		
A.C. SUPPLY VOLTAGE		
MINIMUM CIRCUIT AMPACITY		
MAXIMUM FUSE SIZE *		WIRES
HEATER WATTS		HERTZ
REFRIGERANT		PHASE
CHARGE		OZ.
MOTORS	VOLTS	RLA/FLA W/HP. LRA
COMPRESSOR		
FAN		
DRIVE		
OTHER		
DESIGN PRESSURE	LOW	HIGH
* OR HACR TYPE CIRCUIT BREAKER		



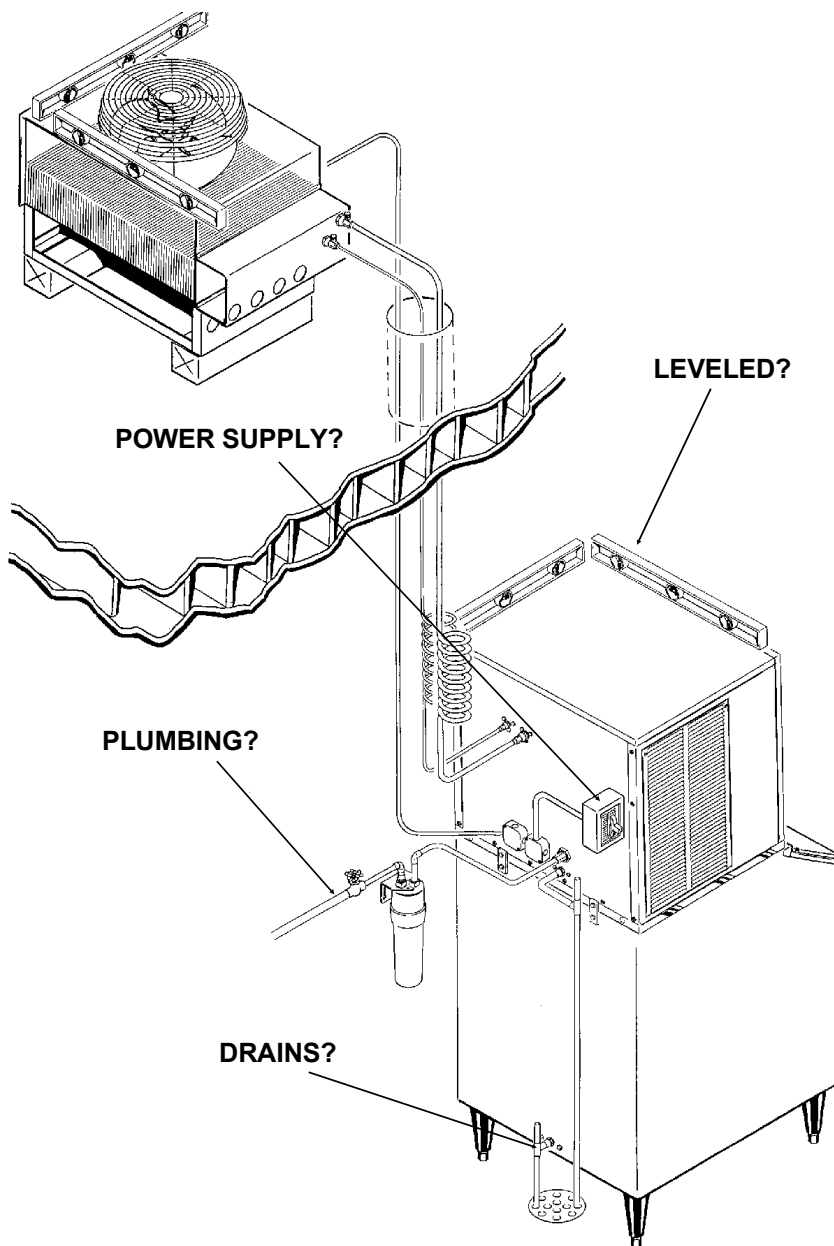


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NME1250R

FOR THE INSTALLER: Final Check List

1. Is the ice system installed indoors in a location where the air and water temperatures are controlled, and where they do not exceed the design limitations?
2. Is there an electrical service disconnect within sight of the installed machine? Has the voltage been checked, and compared to nameplate requirements?
3. Have all the plumbing connections been made and checked for leaks?
4. Has the machine and bin been leveled?
5. Is there a minimum of 6" clearance at the rear, left, and right of the machine for proper service access and air circulation?
6. Is the water pressure a minimum of 20 psig?
7. Has the machine been secured to the bin?
8. Is there a water shut off valve installed near the machine?
9. Is the remote condenser installed per local building codes, and in a place where it has adequate ventilation and minimal solar heat gain?
10. Has all shipping material (under and next to the gearmotor, and on top of the ice chute) and literature (inside the front panel) been removed from the units?
11. Have the remote condenser and precharged lines been properly installed?
12. Has the electrical connection between the icemaker and the condenser been made?
13. Verify that the master switch is in the OFF position.
14. Switch on the electrical power.
15. Refer to Pre-Start instructions, the next page.



START UP

Pre-Start Inspection

1. Remove the front, left, and right side service panels.
2. Check that the styrofoam shipping blocks under the gearmotor, on top of the ice discharge chute, and between the gearmotor and the right side panel have been removed.
3. Inspect the interior of the machine for loose screws or wires. Check that no refrigerant lines are rubbing each other. Check that the fan blade turns freely (remote condenser).
4. Check that the refrigerant lines are properly installed.
5. Check that the electrical power has been on for at least 4 hours.
6. Check that the unit is installed correctly according to the final check list on page 10.

Start Up

1. Go through the pre-start inspection.
2. Open the hand valve, observe that water enters the water reservoir, fills the tube from the reservoir to the evaporator, and then shuts off. Check for leaks.
3. Open the King Valve.
4. Switch the master switch on.
The electrical start up sequence is now on automatic.
 - A. There should be a short (15 second) delay before the gearmotor starts.
 - B. After the gearmotor starts, the liquid line valve will open, the pump down control will close and the compressor will start.
5. The remote condenser fan turns, and the condenser begins to discharge warm air.
6. The unit should soon be making ice, if desired the low side pressure can be checked, it should be 30 psig + or - 4 psig.

The low side pressure may be 25 to 28 PSIG in low condensing temperatures, and 35 to 40 PSIG when in high condensing temperatures.

The discharge pressure will depend upon air and water temperatures, but should be between 180 - 200 psig when in low condensing temperatures; and 320 to 420 psig when in high condensing temperatures.

7. **THERE ARE NO ADJUSTMENTS TO MAKE**, so replace the panels.
8. Clean and/or sanitize the storage bin interior, wipe off the exterior with a clean, damp cloth.
9. Give the owner/user the service manual, instruct him/her in the operation of the unit, and make sure they know who to call for service.
10. Fill out the Customer Evaluation and Warranty Registration form, and mail it to Scotsman.

NME1250R

COMPONENT DESCRIPTION

Control Box: Contains the electrical controls that operate the machine.

High Pressure Cut Out (control): A manual reset switch sensing the high side refrigeration pressure. It is set to shut the machine off at 450 psig.

Evaporator: A vertical stainless steel tube, refrigerated, and water filled. In it there is a stainless steel auger.

Reservoir: Float operated, it maintains the water level in the evaporator at a constant level, it also contains the water level sensor.

Water Level Sensor: Senses if there is water in the reservoir to make ice out of. Will shut the machine off if there is none.

Ice Discharge Chute: Directs the ice produced by the evaporator into the storage bin.

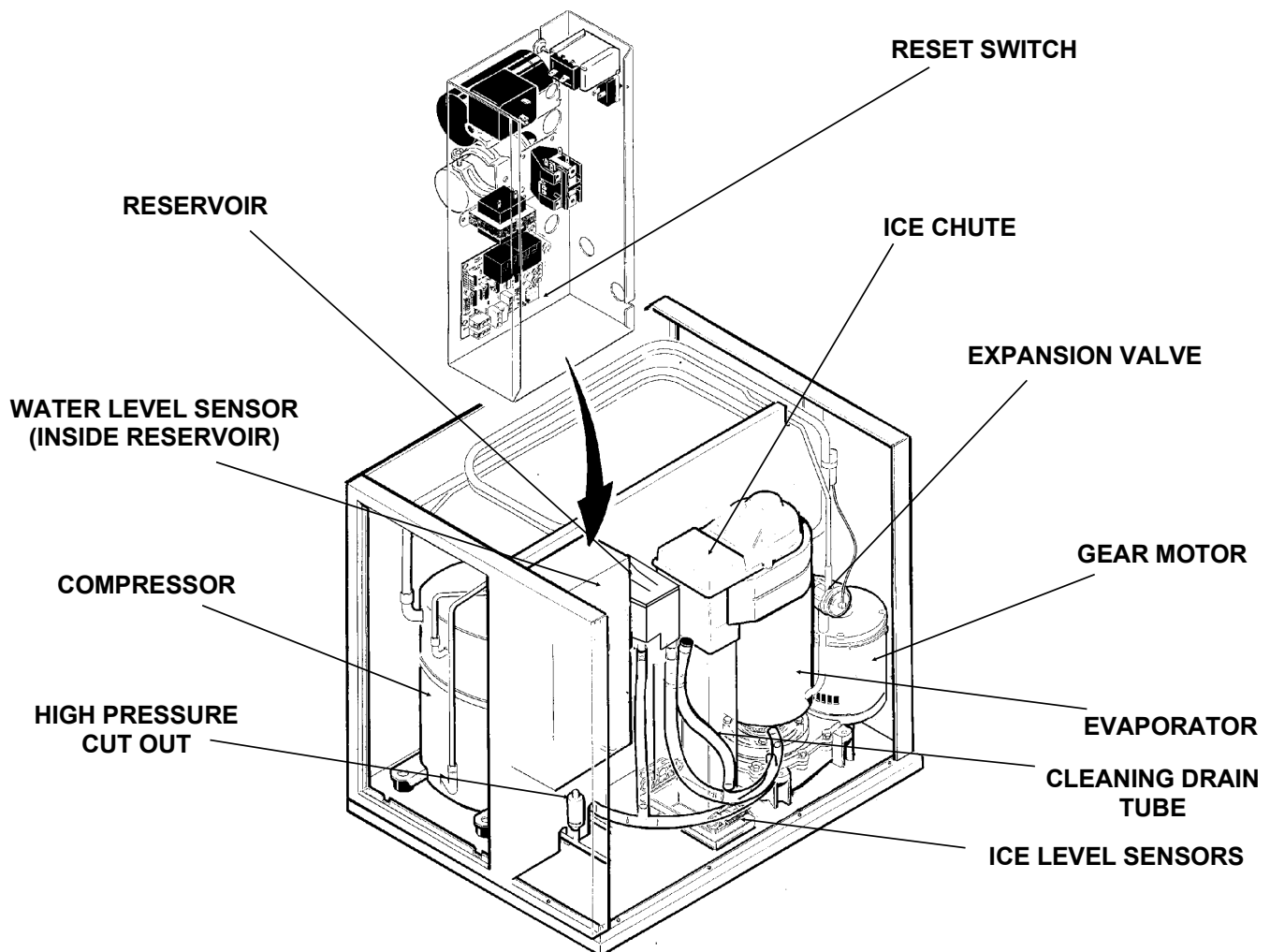
Ice Level Sensor: An electronic "eye", it senses the presence of ice in the bottom of the ice discharge chute. Operates to turn the ice machine on and off automatically as the level of ice in the bin changes.

Gear Motor: An oil filled, speed reduction gearbox, driving the auger.

Cleaning Drain Tube: When uncapped and lowered, drains the evaporator.

Compressor: The refrigerant vapor pump.

Expansion valve: The refrigerant metering device.



COMPONENT DESCRIPTION: Control Box

Contactors: A definite purpose contactor connecting the compressor and the remote condenser fan motor to the power supply.

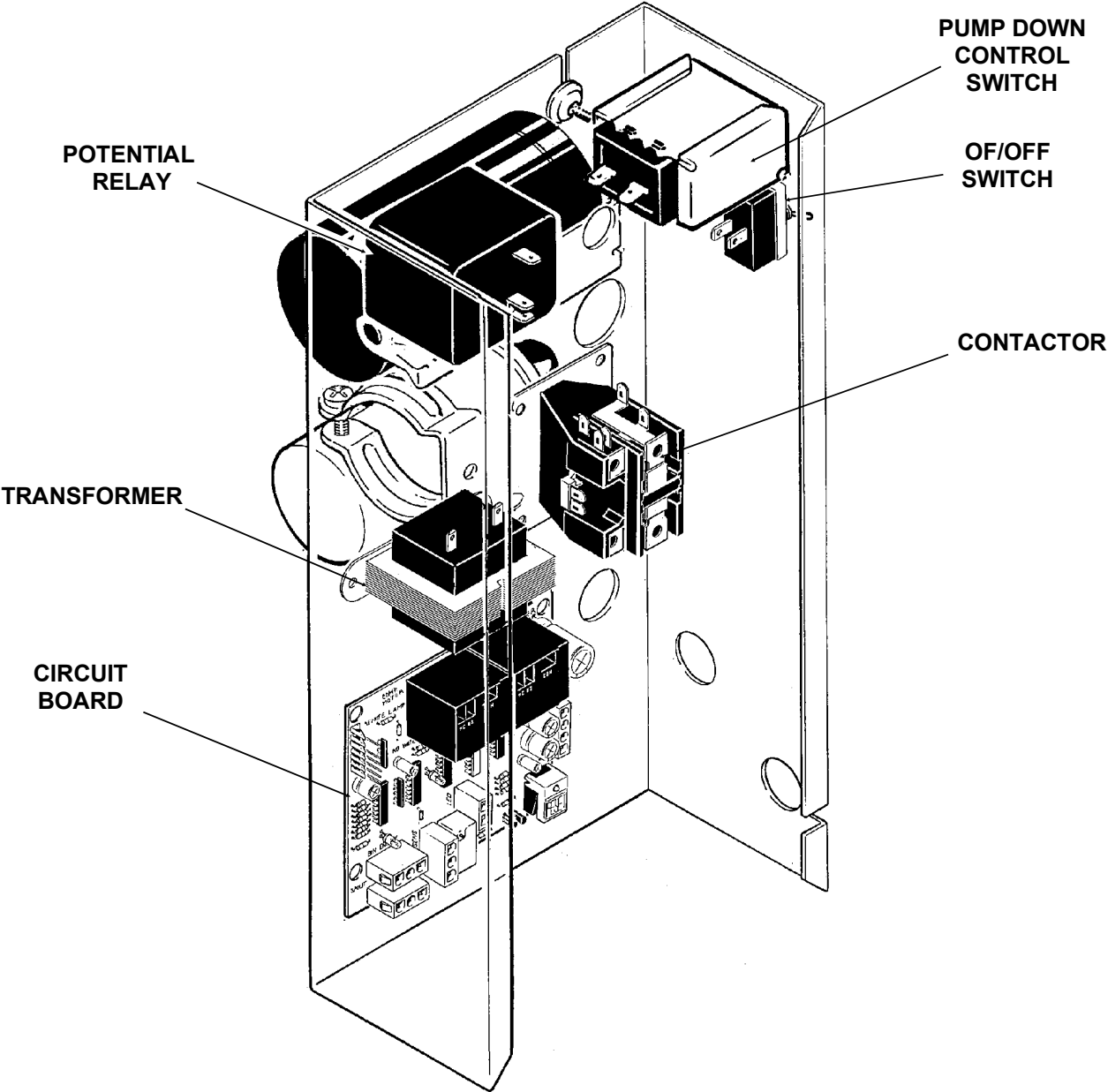
Circuit Board: Controlling the ice machine through sensors and relays. The sensors are: ice level, and water level. The relays are for the gear motor (with a built in time delay to clear the evaporator of ice when the unit turns off) and for the liquid line valve.

Transformer: Supplies low voltage to the circuit board.

Pump Down Control: A switch to control the compressor, depending upon low side pressure: closes at 30 PSIG, and opens at 15 PSIG.

Potential Relay: The compressor start relay.

On/Off Switch: Manual control for the machine.



NME1250R

ELECTRICAL SEQUENCE: A Model

Refer the wiring diagram as needed.

If the machine is switched off at the master switch, but is otherwise ready to go, switching the master switch to ON does the following:

- The bin empty light on the circuit board goes on
- There is a 15 second delay
- If there is enough water in the reservoir, the circuit board will allow the machine to start up.

Start up consists of:

- The liquid line relay and auger motor relay become energized, connecting power to the liquid line solenoid coil and the windings of the auger motor.
- The liquid line solenoid opens, raising the low side pressure.
- The pump down control closes
- The auger motor starts, and the centrifugal switch closes, connecting power to the compressor contactor coil.
- The contactor is energized, connecting power to the compressor, and the compressor starts.
- As ice goes past the ice level sensors, the bin empty light will be on and the machine will continue to run, unless the ice stays between the sensors for more than 15 seconds (bin full). At that point, the machine shuts down.

Shut Down consists of:

- The liquid line solenoid relay opens, lowering the suction pressure.
- The pump down pressure control opens.
- The compressor contactor opens
- The compressor stops
- The auger motor is run by the circuit board for 2 more minutes, clearing out ice in the evaporator, and then
- The auger motor relay opens, and the auger motor stops.

If the ice level sensor is clear (bin empty) for more than 15 seconds, the machine will start up again.

Another purpose of the circuit board is to turn the machine off if there is not enough water in the machine.

- When the water level in the reservoir falls below the water level sensor, the machine will "shut down"
- When the water refills the reservoir, the machine will start up again.

Separate from the circuit board:

- If the high pressure control (cut out) opens, the machine will stop immediately (through the relays on the circuit board). It must be manually reset.
- The pump down control switch will stop & start the compressor.

The master switch is the manual control for the complete machine, but it is not a service disconnect.

OPERATION

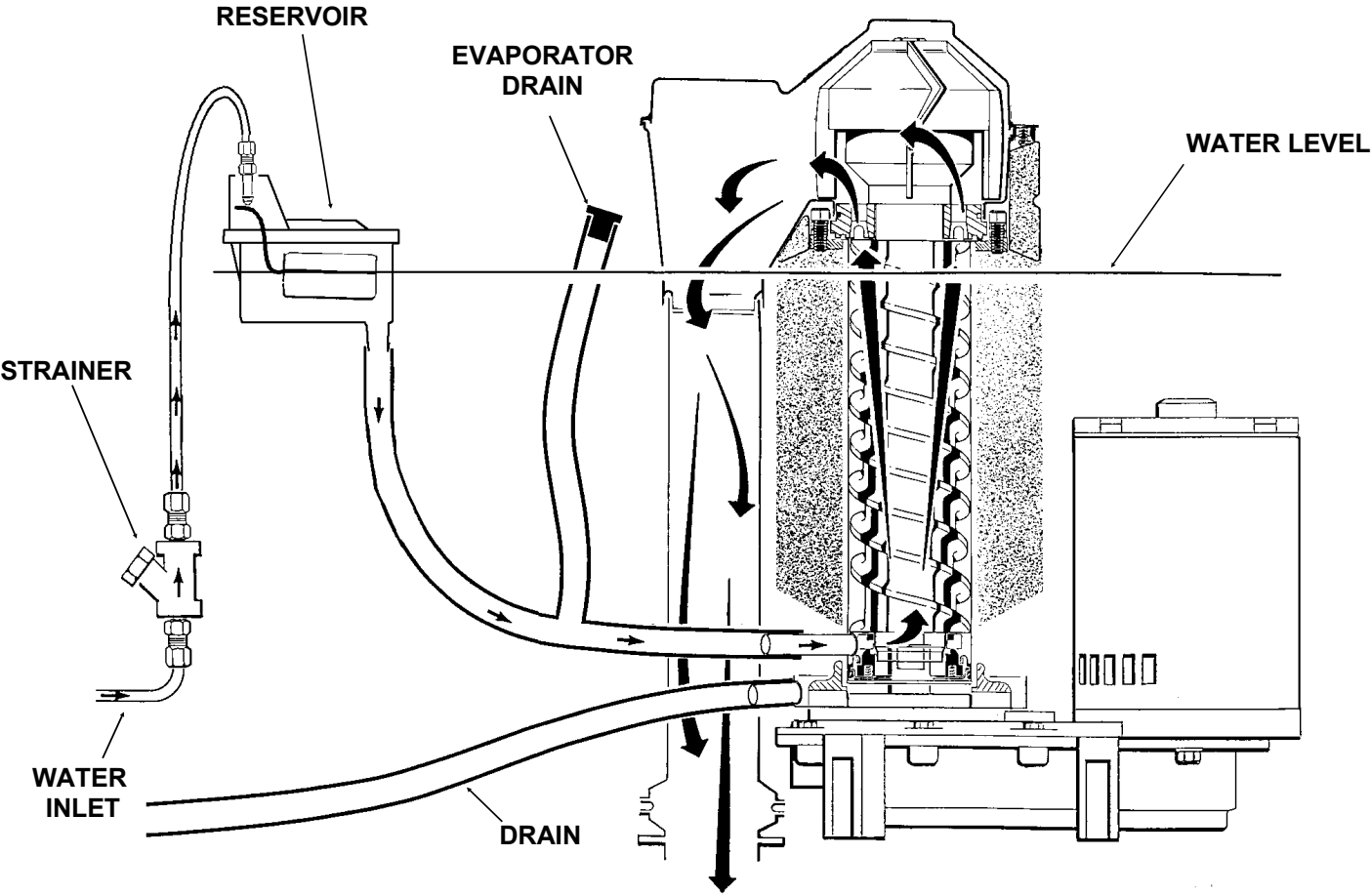
Water

Water enters the machine through the 3/8" male flare at the rear of the cabinet, goes to the water reservoir which it enters through the float valve.

The water then goes out the bottom of the reservoir tank to the bottom of the evaporator. Reservoir overflow or evaporator condensation is routed to the drain.

Water Level: The correct water level should be checked when the machine is making ice. Locate the water level in the reservoir, and compare it to the horizontal line molded into the side of the reservoir.

The correct level should be between 1/8" above and 1/4" below the line. If needed, bend the float arm up or down to adjust the water level.

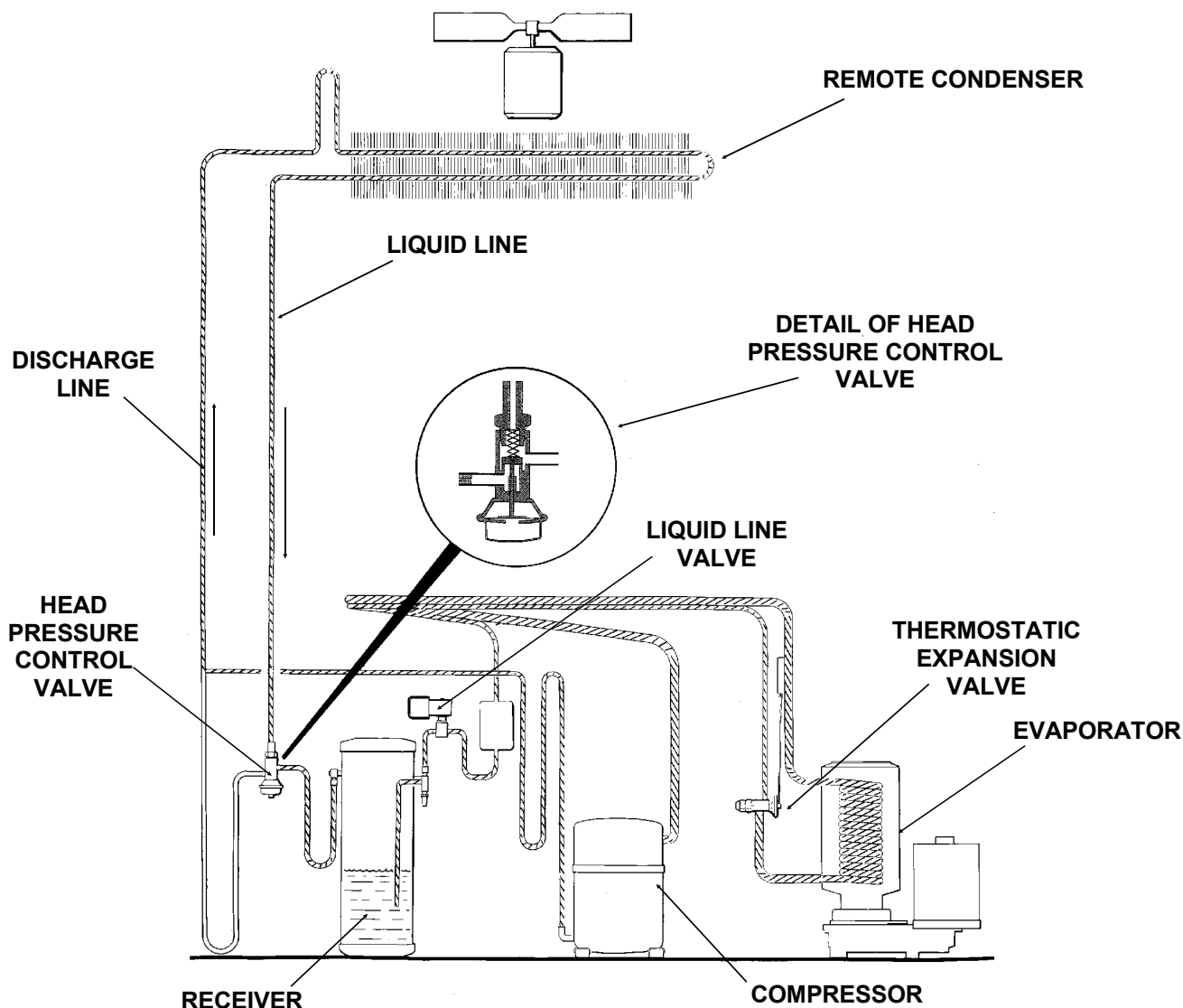


NME1250R

OPERATION:

Beginning at the **compressor**, the refrigerant is compressed into a high temperature gas. The discharge line directs this gas to the condenser and to the head pressure control. At the **remote condenser** the gas is cooled by air and it then condenses into a liquid. This high pressure liquid then goes through the liquid line to the liquid line connection at the **head pressure control**. If the head pressure is high enough the liquid refrigerant will go through the valve and enter the **receiver**. From the receiver, the liquid refrigerant flows through the **liquid line valve** and then to the expansion valve.

The **thermostatic expansion valve** meters liquid refrigerant into the **evaporator**, the volume of liquid refrigerant depending upon the temperature of the evaporator; warmer evaporators get more refrigerant and colder evaporators get less. At the evaporator, the refrigerant enters an area of relatively low pressure, where it can easily "boil off" or evaporate. As it evaporates, it absorbs heat from the evaporator and whatever is in contact with it (such as the water inside it). After the evaporator, the refrigerant, now a low pressure vapor, goes through the suction line back to **compressor**, where the cycle is repeated.

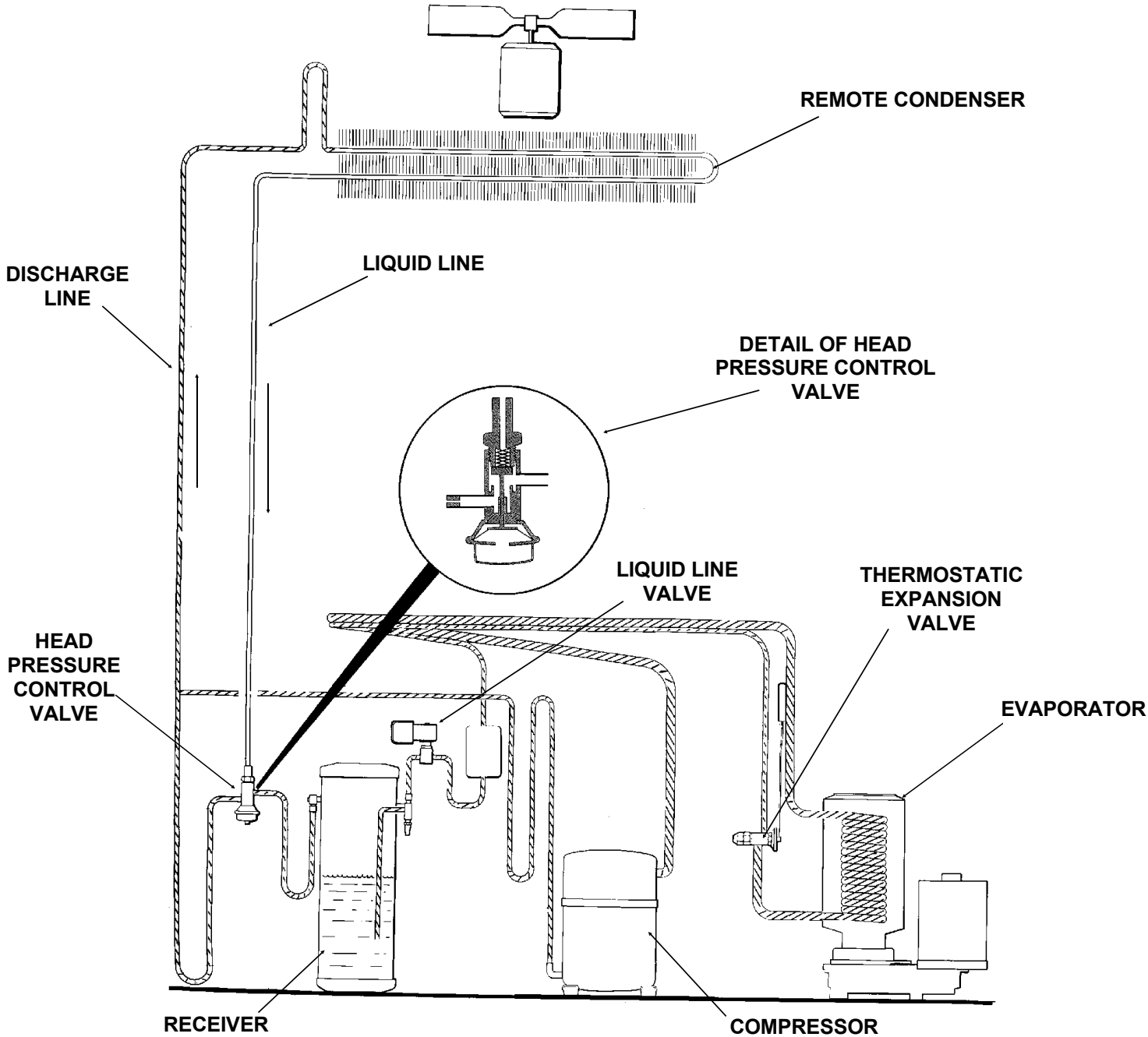


OPERATION: Refrigeration

LOW CONDENSING TEMPERATURE

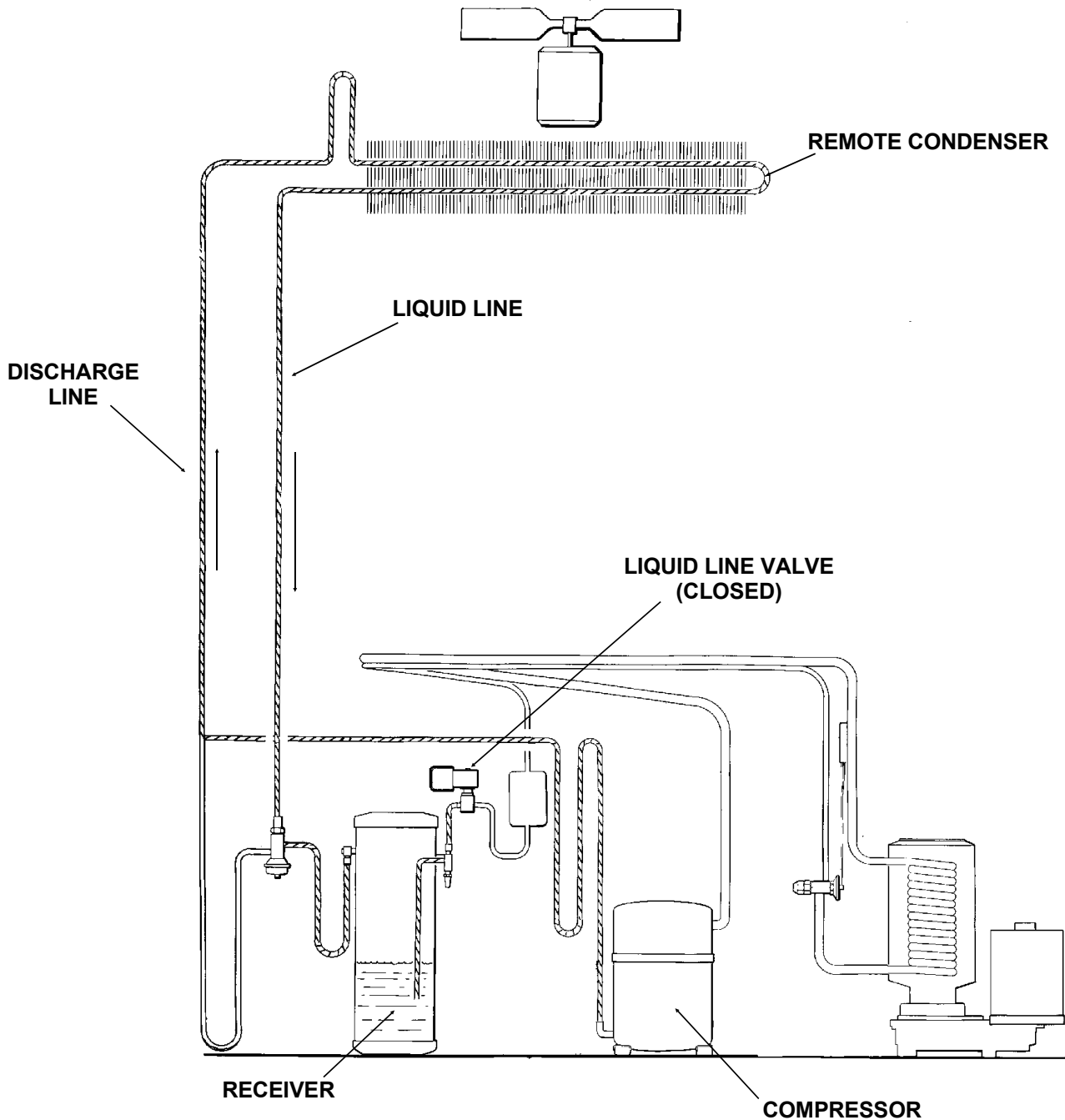
The refrigeration system under low condenser air temperatures is much the same as it is under higher temperatures, with the exception that the resulting low head pressures cause the head pressure control to close off the liquid line between the condenser and the receiver.

This forces more refrigerant into the condenser (with a small amount of discharge gas going into the receiver to maintain pressure until the head pressure is built back up to 180 psig). At that pressure the valve opens up the liquid line from the condenser to the receiver.



NME1250R

OPERATION: Refrigeration



PUMP DOWN

During the pump down cycle (usually initiated by the circuit board de-energizing the liquid line valve) the discharge gases flow through their normal path to the remote condenser, through the head pressure control, and into the receiver. At this point the refrigerant flow is stopped by the closed liquid line valve.

This action forces the refrigerant into the receiver and keeps it out of the compressor. The pump down continues until the pump down control opens turning the compressor off.

MAINTENANCE AND CLEANING

A Scotsman Ice System represents a sizable investment of time and money in any company's business. In order to receive the best return for that investment, it **MUST** receive periodic maintenance.

It is the **USER'S RESPONSIBILITY** to see that the unit is properly maintained. It is always preferable, and less costly in the long run, to avoid possible down time by keeping it clean; adjusting it as needed; and by replacing worn parts before they can cause failure. The following is a list of recommended maintenance that will help keep the machine running with a minimum of problems.


Maintenance and Cleaning should be scheduled at a minimum of twice per year. _ _ _ _ _

Electrical power will be ON when doing in place cleaning.

ICEMAKING SYSTEM: In place cleaning

1. Check and clean any water treatment devices, if any are installed.
2. Pull out and remove the front panel.
3. Move the ON-OFF switch to OFF.
4. Remove all the ice from the storage bin.
5. Remove the cover to the water reservoir and block the float up.
6. Drain the water reservoir and freezer assembly using the drain tube attached to the freezer water inlet. Return the drain tube to its normal upright position and replace the end cap.
7. Prepare the cleaning solution: Mix eight ounces of Scotsman Ice Machine Cleaner with three quarts of hot water. The solution should be between 90 and 115 degrees F.

9. As the ice maker begins to use water from the reservoir, continue to add more cleaning solution to maintain a full reservoir.
10. After all of the cleaning solution has been added to the reservoir, and the reservoir is nearly empty, switch the master switch to OFF.
11. After draining the reservoir, as in step 6, wash and rinse the water reservoir.
To Sanitize:
Repeat steps 8-11, except substitute an approved sanitizing solution for the cleaning solution. A possible sanitizing solution may be made by mixing 1 ounce of household bleach with 2 gallons of warm (95⁰F. - 115⁰F.) water.
12. Remove the block from the float in the water reservoir.
13. Switch the master switch to ON
14. Continue ice making for at least 15 minutes, to flush out any cleaning solution. Check ice for acid taste - continue icemaking until ice tastes sweet.

▲WARNING	Scotsman Ice Machine Cleaner contains acids. These compounds may cause burns.
	If swallowed, DO NOT induce vomiting. Give large amounts of water or milk. Call Physician immediately. In case of external contact, flush with water. KEEP OUT OF THE REACH OF CHILDREN.

- DO NOT USE any ice produced from the cleaning solution.**
Be sure no ice remains in the bin.
15. Remove all ice from the storage bin.
 16. Add warm water to the ice storage bin and thoroughly wash and rinse all surfaces within the bin.
 17. Sanitize the bin interior with an approved sanitizer using the directions for that sanitizer.
 18. Replace the front panel.

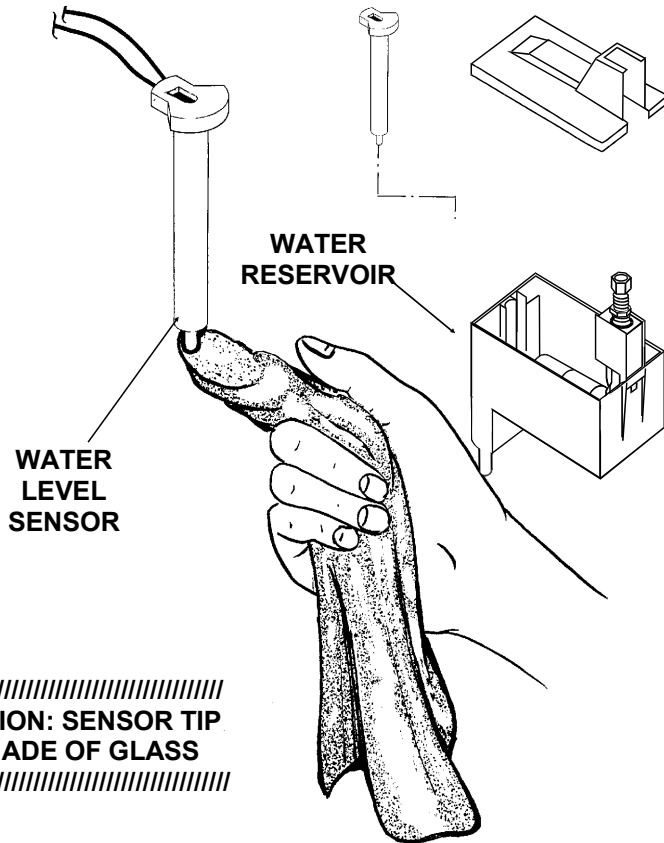
8. Slowly pour the cleaning solution into the water reservoir until it is full. Wait 15 minutes, then switch the master switch to ON.

NME1250R

ICEMAKER MAINTENANCE:

1. The bin control uses devices that sense light, therefore they must be kept clean enough so that they can "see". At least twice a year, remove the bin control sensors from the base of the ice chute, and wipe the inside clean, as illustrated.

2. The ice machine senses water level by a probe located in the water reservoir. At least twice a year, the probe should be removed from the reservoir, and the tip wiped clean of mineral build-up.

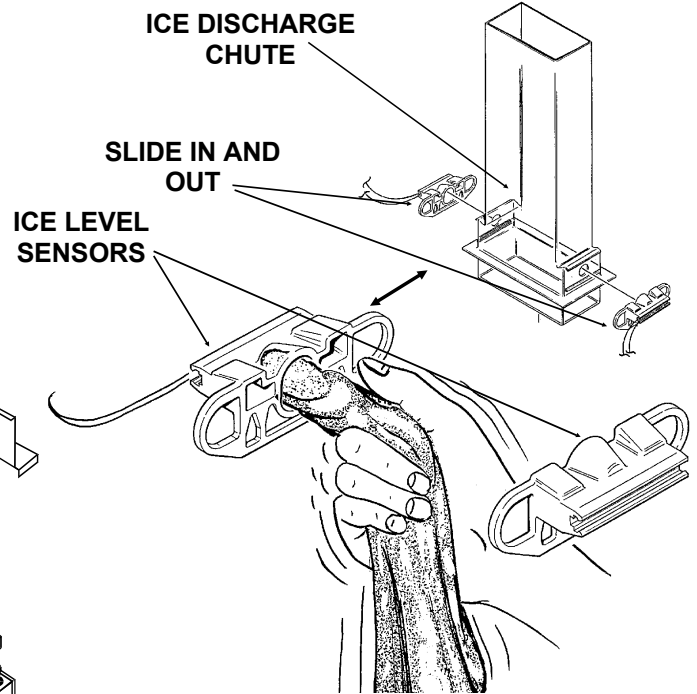


CAUTION: SENSOR TIP IS MADE OF GLASS

3. The top bearing in the breaker should also be checked at least **two times per year**.

Check the thrust bearing by:

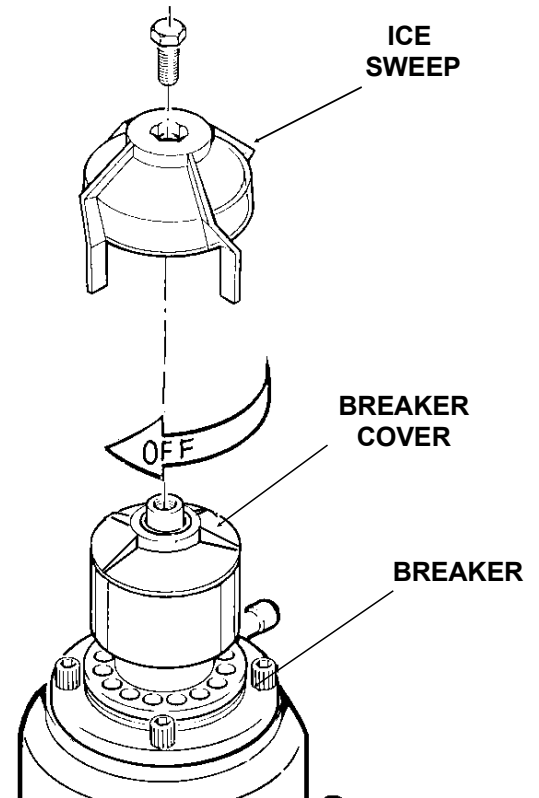
- removing the ice chute cover
- unscrewing the ice sweep
- removing the water shed
- unscrewing the breaker cover




• unscrewing the auger stud
Inspect the assembly, looking for wear .

4. Clean the remote condenser. Use a vacuum cleaner or coil cleaner if needed. Do NOT use a wire brush.

5. Check and tighten all bolts and screws.

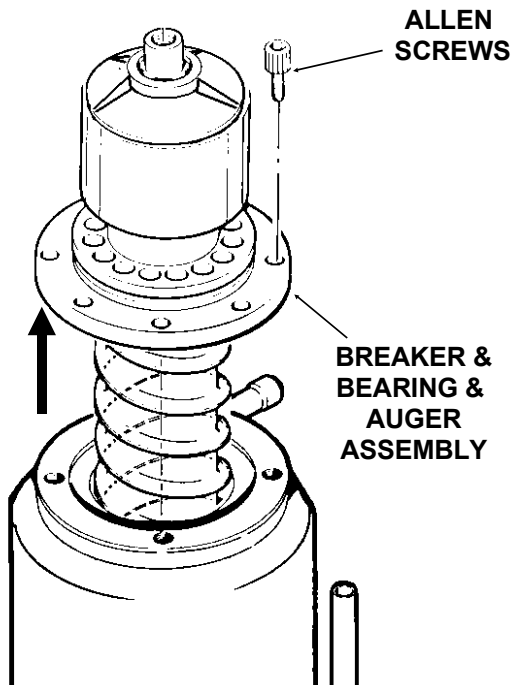


MAINTENANCE: Auger

	<p>⚠ WARNING</p> <p>Hazardous Moving Parts. Moving auger can cause personal injury. Disconnect electrical power before beginning.</p>
---	---

In some areas the water supply to the icemaker will have a great deal of minerals in it, and that will result in an evaporator and auger becoming coated with these minerals, requiring a more frequent removal than twice per year. If in doubt about the condition of the evaporator and auger, the auger can be removed so the parts can be inspected.

The auger has sharp edges, handle with gloves.



Note. Water filters can filter out suspended solids, but not dissolved solids. "Soft" water may not be the complete answer. Check with a water treatment specialist regarding water treatment.

For more information on removal of these parts, see REMOVAL AND REPLACEMENT.

1. To remove the auger, remove front and top panels.
2. Remove bail clip holding the ice chute cover to the ice chute body, and remove the cover.
3. Unscrew and remove ice sweep.
4. Remove ice chute body from evaporator.
5. Remove 4 allen screws holding breaker to evaporator.
6. Pull up on breaker to remove auger.

Allow the auger to dry, the stainless steel of the auger and evaporator must be clean and bright. Clean the auger and evaporator as required. **DO NOT HONE THE EVAPORATOR.**

7. Replace the water seal.
8. Reverse to reassemble.

Remote Condenser:

Clean the fins of the remote condenser. Use a soft brush or vacuum. Use coil cleaner if grease is embedded in the fins.

NME1250R

SERVICE DIAGNOSIS: Condition - No Ice Being Produced

STATUS: *NOTHING OPERATES*

A. Check: **Voltage** to the unit, restore it if there is none. Compare to the nameplate.

B. Check: The **master switch**, switch ON if off.

C. Check: The reset switch (high pressure): depress and release the switch. If the unit still does not start, check the high side pressure.

D. Check the **high pressure cut out switch**.

1. This pressure switch opens at 450 psig. Check the high side pressure, reset the switch and observe that the fan is forcing air through the condenser. If the switch opens at pressures below 450 psig, replace the switch. If the pressures rise above the trip out point, and the unit shuts down:

a. Check for adequate air flow. Clean the condenser. If the air flow is poor because of the installation, advise the user that the unit should be moved, or the air around it kept cooler.

Check the fan motor for tight bearings and proper rotation.

Check that the fan blades are clean, and the fan secure to the fan motor shaft.

b. Check the head pressure control valve, it should be maintaining a head pressure above 180 psig. If the unit has the correct charge, and the condenser is clean, and the refrigerant lines are not kinked or twisted, and the condenser is not overheated by external heat loads, the head pressure should be under the trip out point of the head pressure control switch. If all of the above are found to be good, and the machine trips out on high head pressure, replace the head pressure control valve.

G. Check the **water level**. If there is not enough water in the reservoir, the water level sensor will keep the machine from starting.

a. Check the water level, restore/adjust if low.

b. Check the water level sensor, clean if dirty, (see maintenance).

c. Check the circuit board, see next page.

If the machine does not start, see the next page.

SERVICE DIAGNOSIS: Condition - No Ice Being Produced

STATUS: NOTHING OPERATES

F. Check: The gear **motor**, if it will not run, the compressor will not run. If no power to it: Check: the **indicator lights** on the circuit board, the **bin empty** light should be ON, the **no water** light should be OFF .

- 1. If the **bin empty** and **no water** lights are off, check the **transformer**.
 - a. Transformer "load" side should have 12 to 15 volts. If not, check the "line" side. The line side should have between 208-230 volts. If the line side has the correct voltage and the load side does not, replace the transformer.
- 2. If the transformer is good, and the **bin empty** light is OFF, check the **ice level sensors**.
 - a. Remove sensors by sliding them sideways out of the ice chute. Visually inspect them, clean if needed.
 - b. Look through the ice chute "eye" hole for something blocking the ice chute.
 - c. If the unit still does not run, replace the ice level sensors.
 - d. If the bin empty light is still OFF, check the **circuit board**.
 - 1. Unplug "opto trans" and "LED" connectors from the circuit board.
 - 2. Plug "opto trans" and "LED" connectors from the Scotsman Electronic Control Tester Model NM1 into the circuit board (**see page end of manual**).
 - a. Move the "bin full" switch on the tester to the full position. The bin full light on the tester should be ON, if not, replace the circuit board. If the bin full light on the tester is ON, move the tester switch to "bin empty" the light on the tester should go OFF and the bin empty light on the circuit board should go ON. If not, replace the circuit board. If it does as above, and the machine still does not run, replace the ice level sensors.
- 3. If the transformer is fine, and the "no water" light is ON, check the **water level sensor**.
 - a. Check the water level in the **reservoir**, restore if low. If the water level is ok:
 - b. Remove the water level sensor from the reservoir and clean the tip if dirty.

////////////////////////////////////

CAUTION: THE TIP IS MADE OF GLASS

////////////////////////////////////
 - c. Replace the water level sensor. If the no water light is still on, check that the "water sen" plug is firmly plugged into the circuit board.
 - d. If the no water light is still on,
 - 1. Unplug the "water sen" connector from the circuit board.
 - 2. Plug "water sen" connector from the control tester into the circuit board.
 - a. Move the water switch on the tester to "no water" and the no water light on the circuit board should go on. If not, replace the board..
 - b. Move the water switch to the " water" position, the no water light should go off, if not, replace the circuit board.
 - c. If after the above, the machine still will not run, replace the water level sensor

NME1250R

SERVICE DIAGNOSIS: Condition - No Ice Being Produced

STATUS: *GEARMOTOR OPERATES, COMPRESSOR DOES NOT*

A. Check the pump down control switch.

1. This pressure switch opens at 15 psig, and closes at 30 psig. If open check the low side pressure, if after running the machine the switch opens at a pressure higher than 18 psig, replace the switch.

The pump down could remain open for any of the following reasons: Low refrigerant charge, auger not turning, restricted system, TXV not opening, liquid line valve not opening.

2. Check the low side pressure, the pump down control should remain closed at any pressure higher than 15 psig. If less than that:

a. Check if the **auger** is turning, if it is not, remove the **gearbox** and:

Check for internal damage, repair and replace in the machine.

b. Check for low charge, add some refrigerant, if the unit begins to operate, (normal low side pressure being about 30-32 psig) stop and look for a leak, repair, replace the drier, evacuate, and weigh in the nameplate charge. If, with added charge, the unit does **not** operate:

Check for a restricted system, replace the drier, evacuate, and weigh in a nameplate charge.

Check for a **Thermostatic Expansion Valve** that does not open, if defective, replace it. Replace the drier, evacuate, and weigh in the nameplate charge.

c. Check the liquid line solenoid valve, it should have power to it, if not:

Check the connections on the circuit board. The liquid line (or compressor) relay on the circuit board may have failed. If so, replace the circuit board.

If there is power to the valve, the coil may be open, or the valve jammed, replace the valve.

Note: The pump down control setting changed beginning with May 1995 production. CI was 17, CO was 2.

SERVICE DIAGNOSIS: Condition - No Ice Being Produced

STATUS: *GEARMOTOR OPERATES, COMPRESSOR DOES NOT*

B. Check the *compressor relay*.

The relay is on the circuit board, if it does not supply power to the liquid line valve coil, the low pressure control will not close, and the compressor will not run.

1. Check for power at the liquid line valve coil, if none:
 - a. Check for power at the compressor relay at the circuit board. If there is power at the relay, but none at the coil,
Check for an open wire between the relay and the coil.
 2. Check the coil. If the coil is open, replace the liquid line valve.
 3. Check the auger drive motor centrifugal switch. If, when the drive motor is running, contact 4 (black wire removed) has no power, and all of the above switches have been checked, replace the centrifugal switch, or the drive motor.
 4. If the compressor relay on the circuit board has power on the NO contact, but not on the COM contact, replace the circuit board.
-

C. Check the *compressor contactor*.

1. If the liquid line valve is open, and the gearmotor is running, the low pressure control should be closed, and the compressor contactor should be energized. If not:

- a. Check for power at the gearmotor terminal to the contactor, if none:
Replace the drive motor or the centrifugal switch in the drive motor.
 - b. Check for power at the high pressure control, if none, check that control.
 - c. Check the coil of the contactor, if open, replace the contactor.
-

D. Check the *compressor*

1. Check for power at the compressor: check the start relay, and start capacitor.
2. Check the windings of the compressor for open windings or shorts to ground.
Replace those items found defective.

NME1250R

SERVICE DIAGNOSIS: Condition - Low Ice Production

I. STATUS: *EVERYTHING IS OPERATING*

A. Check the condenser for dirt. Clean as required. Check the head pressure. If the head pressure is very high:

1. Check for high air temperatures, or restrictive air flow. Correct as needed.
 - 2.. The refrigerant may contain non condensable gases, purge, evacuate, and recharge per nameplate.
 3. Check the interconnecting refrigerant tubing for kinks or twists. Check that the discharge and liquid lines are insulated, and do not touch each other where not insulated.
-

B. Check the evaporator

1. Clean the evaporator, the mineral build up will adversely affect the ice machines production.
2. Check the evaporator for water leaks, replace the water seal if found to be leaking.
3. Check the low side pressure; normal is about 30-32 psig. If low, assume a refrigerant leak, locate, repair and recharge.

If no leak, the TXV may be restricted, defective or not adjusted properly. If needed, replace the TXV, evacuate, and recharge per nameplate.

4. Check the insulation on the evaporator. It should be dry, with no wet spots or frost. If the insulation has failed: replace the evaporator or add extra insulation in the form of foam tape to the evaporator.
-

C. Check the compressor

1. The compressor may be inefficient.
 - a. Check the amp draw, normal is about 5.7 to 6.4. If low change the compressor.
 - b. if the amp draw is normal, pinch off the suction line to check the pull down capability of the compressor. The compressor should pull down to 25 inches of vacuum and hold there for three to five minutes.
-

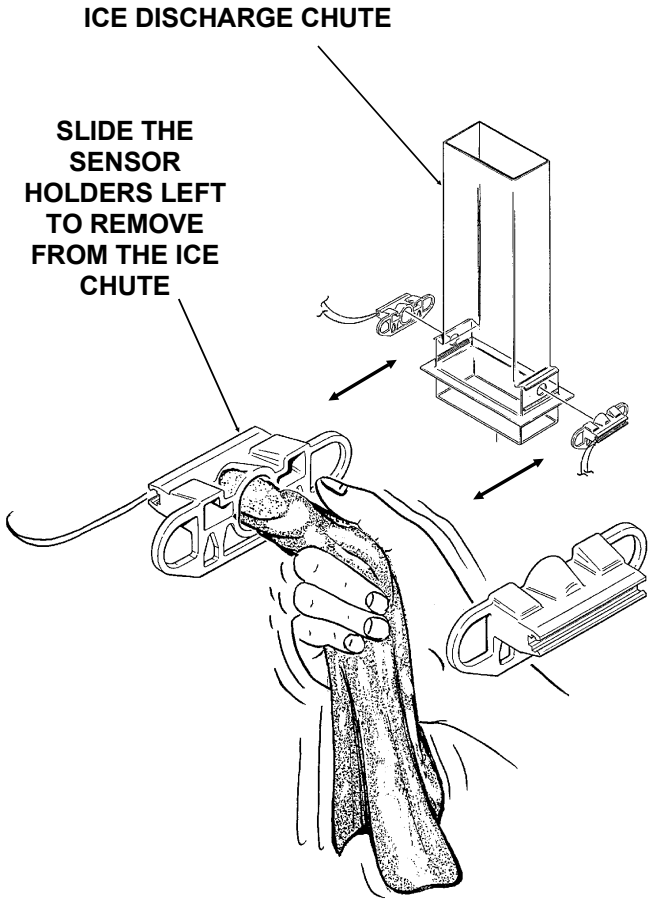
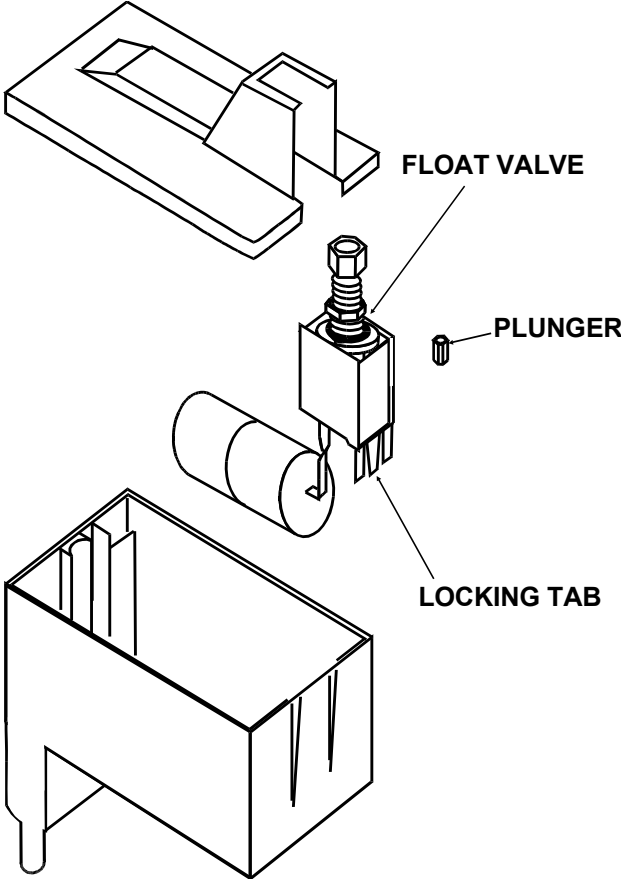
D. Refrigerant charge

On this model the refrigerant charge is adequate whenever the receiver has enough liquid refrigerant to maintain liquid refrigerant at the TXV. HOWEVER, the condensing temperature will have a definite bearing on this. A unit with a marginal charge in summer, will be **undercharged** when the outside air temperature drops. The only correct way to charge this unit is to weigh in the nameplate charge.

REMOVAL AND REPLACEMENT

WATER RESERVOIR

1. Shut off the water supply to the icemaker.
2. Remove front panel and reservoir cover.
3. Disconnect water inlet compression fitting at reservoir inlet.
4. To remove float push locking tab in and pull float valve up and out of the reservoir tank.
Note: there is a plunger inside the valve that is available separately.
5. To remove reservoir, remove drain hose from reservoir.
6. Remove evaporator inlet hose from reservoir.
7. Pull water sensor from reservoir.
8. Remove mounting screws from reservoir bracket, and remove reservoir from icemaker.
9. Reverse to reassemble.




BIN CONTROLS (Ice Level Sensors)

1. Disconnect electrical power.
2. Remove front panel.
3. Remove control box cover.
4. Locate ice chute, at the base of the chute, in front of and behind it are two plastic bin control mounts.
5. Slide each bin control to the left, and in the control box, disconnect the electrical leads connecting the bin control to the circuit board.
6. Reverse to reassemble, be certain that the bin controls are aligned so that the ice level sensors are visible (centered) through the holes in the cube chute.

NME1250R

REMOVAL AND REPLACEMENT: Bearing And Breaker

	⚠ WARNING
	Hazardous Moving Parts. Moving auger can cause personal injury. Disconnect electrical power before beginning.

Note: Removal of the auger, water seal, evaporator and gearmotor must begin at the top of the assembly.

To Remove the Breaker Bearing Assembly:

1. Remove panels and disconnect electrical power.
2. Move bail clip off of ice chute cover and remove ice chute cover.
3. Unscrew and remove ice sweep.
4. Remove insulation halves from outside of ice chute, lift up and remove ice chute.
5. The breaker may be removed from the auger and evaporator without disturbing the auger.
 - a. Unscrew breaker cover from breaker (left hand threads)
 - b. Unscrew auger stud from top of auger.

c. Unscrew 4 allen head cap screws holding breaker to evaporator.

d. Lift up, and remove breaker/bearing assembly from auger & evaporator.

6. Service the bearing. Check for rust, rough spots and damage.

a. The bearing is pressed into the breaker, to remove the bearing and replace it an arbor press is needed.

b. Replace lower seals before installing new bearing in breaker.

Note: seals must be pressed in with a tool pushing against the outer edge only, they will not install by hand.

Replace parts as required. Re-grease bearing with Scotsman part no. A29123-001 bearing grease.

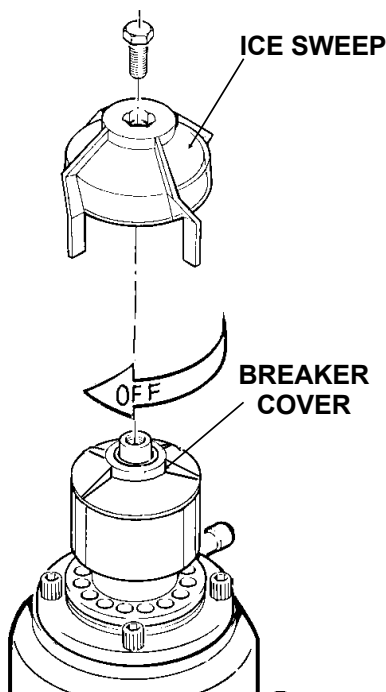
Replace top seal, and check the o-rings, replace if cut or torn.

7. Reverse to reassemble: specific tools and materials are required to install properly.

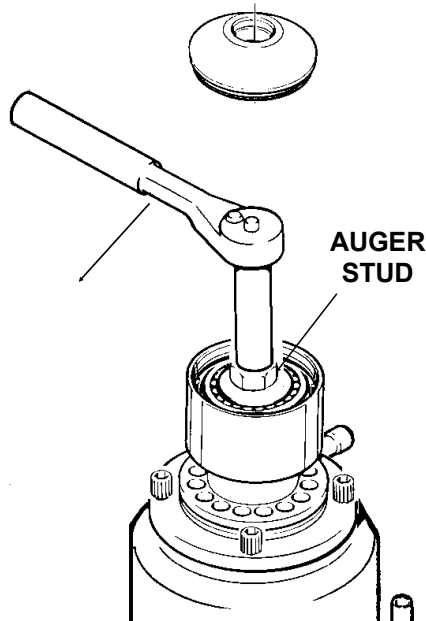
a. Add food grade grease such as Scotsman part number 19-0569-01 to the seal area before installing on the auger.

b. Check the seal to shaft areas for cuts, or rough spots: none are permitted.

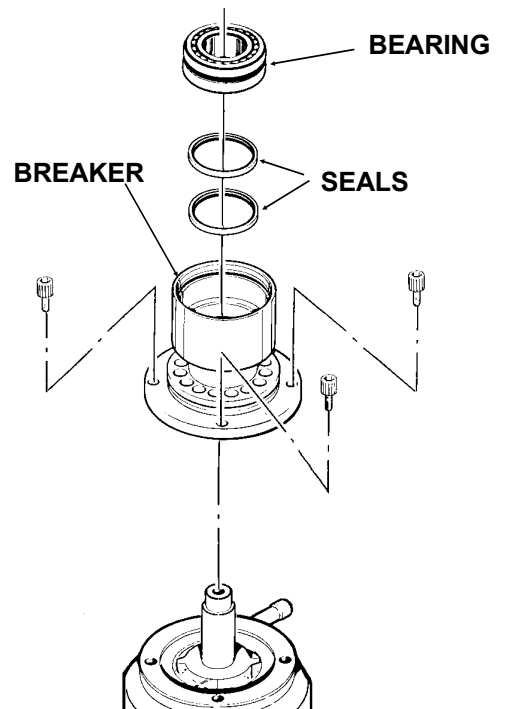
Step 5-a




Step 5-b



Step 5-c & Step 6



REMOVAL AND REPLACEMENT: Auger

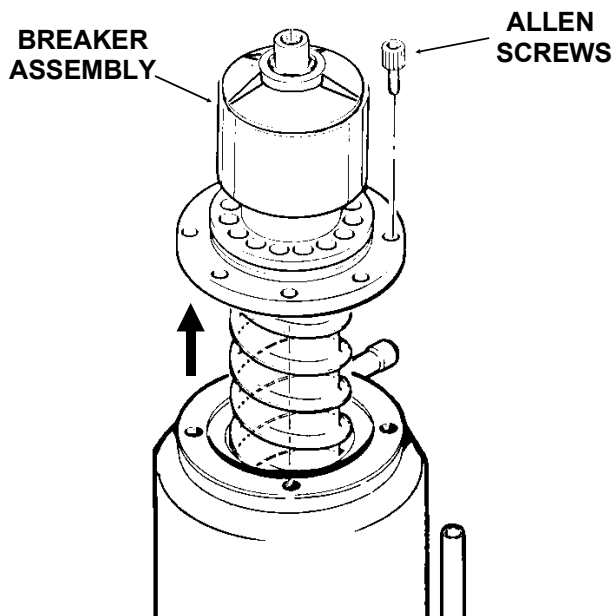
	<h3>⚠ WARNING</h3>
	<p>Hazardous Moving Parts. Moving auger can cause personal injury. Disconnect electrical power before beginning.</p>

To Remove the Auger:

Turn off the water to the machine, and unclip the evaporator drain hose, pull it down and drain the evaporator into the bin or a container.

1. The top panel must be removed.
2. The auger and breaker/bearing may now be removed as an assembly.
 - a. Unscrew 4 allen head cap screws holding breaker to evaporator.
 - b. Lift up on breaker and remove auger from evaporator.

Note: *If the auger is stuck, the breaker must be removed from the auger.*



The breaker may be removed from the auger and evaporator without disturbing the auger.

- a. Unscrew breaker cover from breaker (left hand threads)
- b. Unscrew auger stud from top of auger.

c. Unscrew 4 allen head cap screws holding breaker to evaporator.

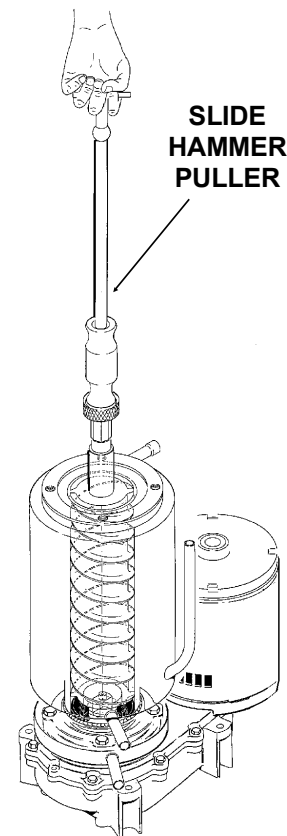
d. Use a slide hammer type puller to pull on the auger at the threaded hole. The size of that hole is 5/8"-18.

Inspect the auger, the critical areas of the auger are:

a. The auger body. It should be clean and shining. Sometimes an auger will appear clean when wet, but after it is dry it will be seen to be stained. Scrub the auger with ice machine cleaner and hot water.

Ice machine cleaner is an acid. Handle it with extreme care, keep out of the reach of children.

b. The water seal area. Because the auger has been removed, the water seal will have to be replaced. Remove the water seal top half from the auger, and inspect the auger for minerals clean as required.



NME1250R

REMOVAL AND REPLACEMENT: Evaporator & Water Seal

To Remove the Water Seal:

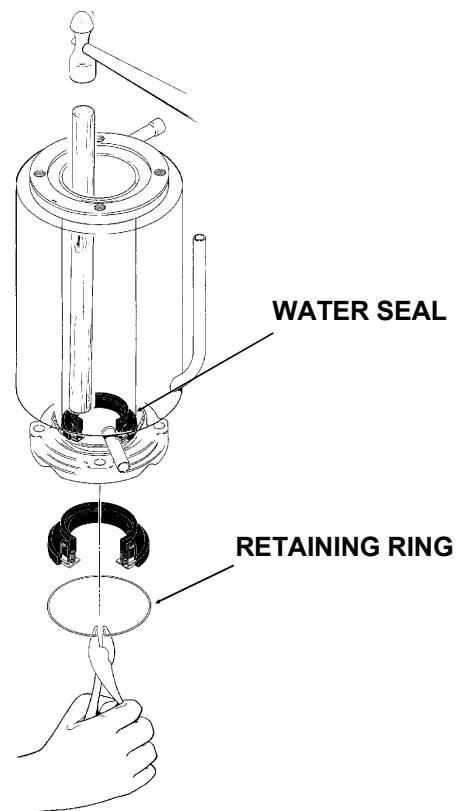
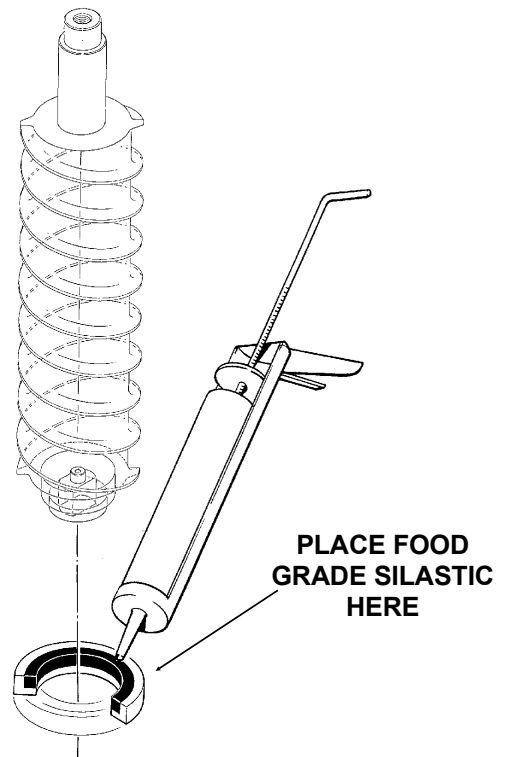
(Assuming all steps to remove the auger have been performed.)

1. The gearmotor/evaporator assembly will have to be pulled away from the machine (if not yet done).
2. Remove the 4 hex head cap screws holding the evaporator to the gearmotor assembly. Lift the evaporator up and off of the gearmotor.
3. Remove the snap ring or wire retainer from the groove under the water seal.
4. Pull or drive out the lower half of the water seal.

To Replace the Water Seal:

1. Lubricate the water seal with water, and push the water seal into the bottom of the evaporator slightly past the groove for the snap ring.
2. Replace the snap ring and pull the water seal down against it.
3. The part of the water seal that rotates with the auger must also be replaced. Remove the old part from the auger and clean the mounting area.
4. Place a small bead of food grade silastic sealant (such as 732 RTV or Scotsman part number 19-0529-01) on the area of the auger where the water seal is to be mounted.
5. Carefully push the water seal (rubber side against the auger shoulder and the silastic.)
////////////////////CAUTION////////////////////////////////////
Do not get any silastic onto the face of the seal.
////////////////////
6. Allow the auger and seal to air dry until the silastic is dry on the surface.
7. If the original water seal was leaking, it would be a good idea to inspect the interior of the gearmotor.

REPLACING THE WATER SEAL



REMOVAL AND REPLACEMENT: Evaporator

To Replace the Evaporator:

(Assuming all the steps for removal of the thrust bearing, breaker, auger, and water seal have been performed.)

- 1. Recover the refrigerant from the ice maker.
 - 2. Unsweat the refrigerant connections:
 - a) At the thermostatic expansion valve outlet.
- ////////////////////CAUTION////////////////////
- Heat sink the TXV body when unsweating or resweating the adjacent tubing.**
- ////////////////////
- b) At the suction line at the joint about 3" from the evaporator.
- 3. Remove the evaporator.
 - 4. Unsweat the drier from the liquid line.
 - 5. After installing a new water seal in the new evaporator (see "To Replace the Water Seal") resweat the tubing connections.
 - 6. Install an new drier in the liquid line.
 - 7. Evacuate the system until dehydrated, then weigh in the nameplate charge. Check for leaks.
 - 8. Install auger, breaker, breaker bearing assembly, and ice discharge chute in reverse order of disassembly. See "To Reassemble Evaporator and Auger"

To Reassemble the Evaporator and Auger

- 1. After the gearmotor has been inspected, fasten the evaporator to the gear motor, be sure that the number of shims indicated on the gear case cover is in place between the gearcase cover and the drip pan gasket. Torque the bolts to 110 inch pounds.
- 2. Lower the auger into the evaporator barrel, slightly turning it to match up with the drive end. Do Not Drop Into the Evaporator.
- 3. Complete the reassembly by reversing the disassembly for the breaker & thrust bearing assembly.

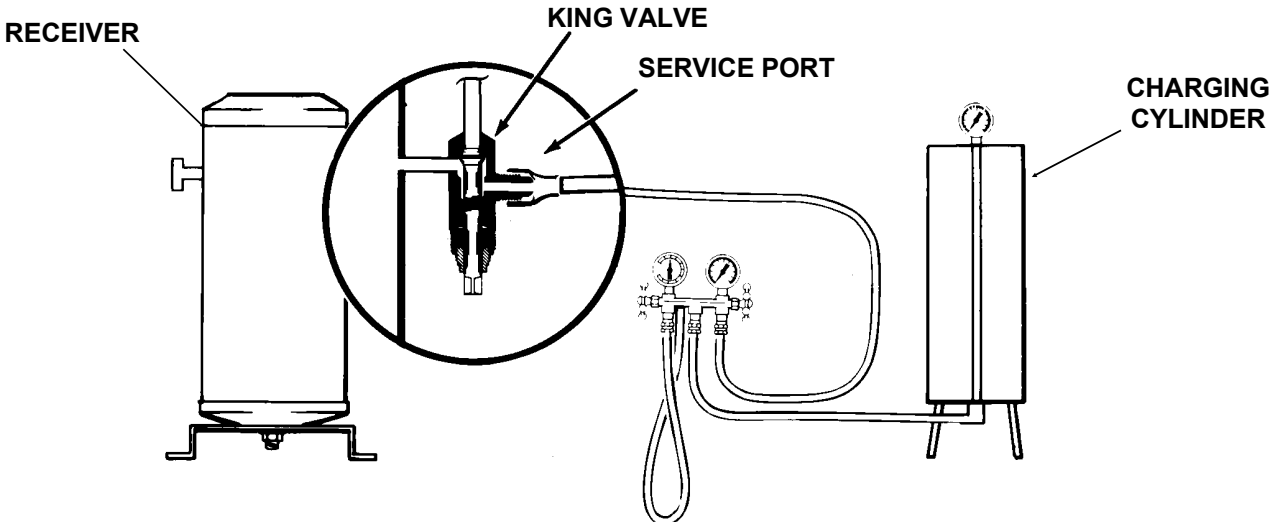
Head Pressure Control Valve

- 1. Recover system of refrigerant.
- 2. Break off process tube on the top of the OLD head pressure control valve.
- 3. Unsweat old valve from tubing.
- 4. Unsweat old dryer from tubing.
- 5. Install new valve in place. Check for correct connections and be sure that the number on the side of the valve is "220"
- 6. Wrap the new valve body in wet cloths to heat sink the valve body.
- 7. Sweat in the new valve and the new dryer.
- 8. Evacuate the system, and weigh the nameplate charge into the receiver..

CHARGING PROCEDURES

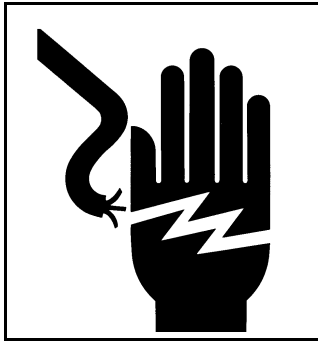
Extra care must be taken when recharging this remote system. No liquid refrigerant maybe placed in the system at the compressor. DO NOT use the

valves at the front of the unit for weighing in the charge. All liquid refrigerant must be weighed into the receiver through the "front seated" king valve.



NME1250R

REMOVAL AND REPLACEMENT: Gearmotor



⚠ WARNING

Electrical Shock Hazard.

Electrical power can cause personal injury. Disconnect electrical power before beginning.

To Remove and Repair the Gearmotor Assembly:

(Assuming that the procedures through removal of the water seal have been performed.)

1. Remove the electrical wires from the gear drive motor.
2. Unscrew the 4 cap screws holding the gearmotor to the gearmotor plate.
3. Remove the gearmotor from the icemaker.

To Inspect the gearmotor.

A) Remove the cap screws holding the gearmotor case halves together and pry the two cases apart.

B) To lift off the cover, lift up until you can feel internal contact, then pull the cover towards the output gear end, and then lift the cover (with drive motor attached) up and away from the gear motor case.

Note: The case cover output gear, bearings, and shaft are one pressed together assembly. Replace as a unit.

C) Inspect the oil, gears, and bearings. If the oil level and condition is acceptable, quickly check the gears and bearings. They are likely to be fine if the oil is.

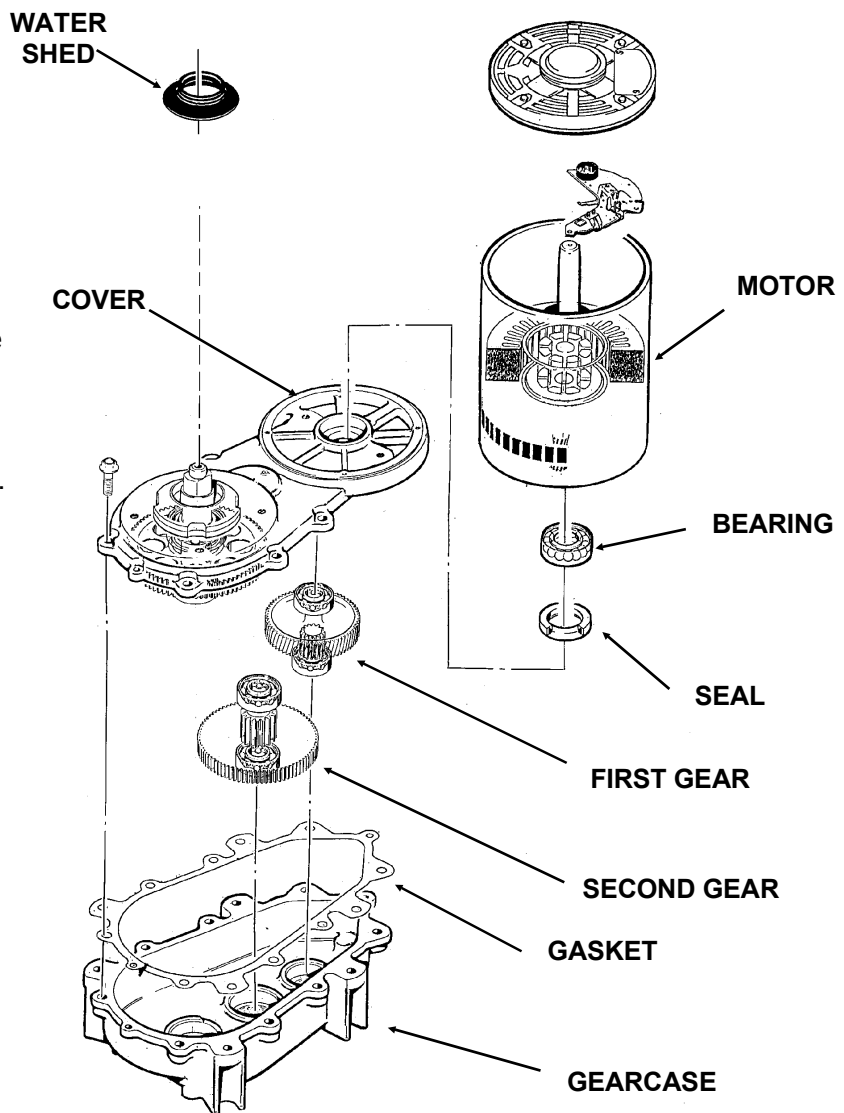
If there is evidence of water in the oil (rusty bearings and gears; the oil

having a creamy white appearance; oil level too high) carefully inspect the bearings and gears. If in doubt about the condition of a part, replace it. The oil quantity is 14 fluid ounces, do not overfill. Note: The gears and bearings are available only as pressed together sets.

D) After replacing parts as required, (if any) reassemble the gearcase. The two smaller gears and the oil should be in the lower case, the output gear will be with the cover. As you lower the cover onto the lower case, cover will have to be moved closer to the second gear after the output gear has cleared the second gear top bearing.

E) After the case is together, and the locating pins are secure in both ends, replace all cap screws.

4. Bench test the gearmotor, check for oil leaks, noise, and amp draw.



REFRIGERATION SERVICE: R-404a

**THIS ICE MACHINE USES R-404a (HP62)
REFRIGERANT AND POLYOLESTER
COMPRESSOR OIL.**

**DO NOT USE MINERAL OIL IN THIS
REFRIGERATION SYSTEM.**

- HP62 is a "Near Azeotrope", and therefore liquid charging is preferred.
- When the system is serviced, a special liquid line dryer is required.
- Polyolester oil absorbs water very easily, and therefore when the system is opened for service, it must be re-sealed as soon as possible (15 minutes maximum).
- Special leak detection equipment is required to locate small refrigerant leaks. Usually a leak detector capable of detecting a Halogenated refrigerant or HFC-134A will work. Check with the leak detector manufacturer if in doubt.
- As with any other refrigerant, do NOT mix HP62 with pressurized air when leak testing.

	VAPOR		VAPOR	
	TEMP.	PRESSURE	TEMP.	PRESSURE
	(DEG F)	(PSIG)	(DEG F)	(PSIG)
	-20	17	70	146
	-18	18	72	150
	-16	20	74	155
	-14	21	76	161
	-12	23	78	166
	-10	24	80	171
	-8	26	82	177
	-6	28	84	182
	-4	29	86	188
	-2	31	88	194
	0	33	90	200
	2	35	92	206
	4	37	94	212
	6	39	96	219
	8	41	98	225
	10	43	100	232
	12	46	102	239
	14	48	104	246
	16	50	106	253
	18	53	108	260
	20	55	110	268
	22	58	112	275
	24	60	114	283
	26	63	116	291
	28	66	118	299
	30	69	120	307
	32	72	122	316
	34	75	124	324
	36	78	126	333
	38	81	128	342
	40	85	130	351
	42	88	132	360
	44	91	134	370
	46	95	136	379
	48	99	138	389
	50	102	140	399
	52	106	142	409
	54	110	144	420
	56	114	146	430
	58	118	148	441
	60	123	150	452
	62	127	152	464
	64	132	154	475
	66	136	156	487

NME1250R

REFRIGERATION SERVICE

General Information:

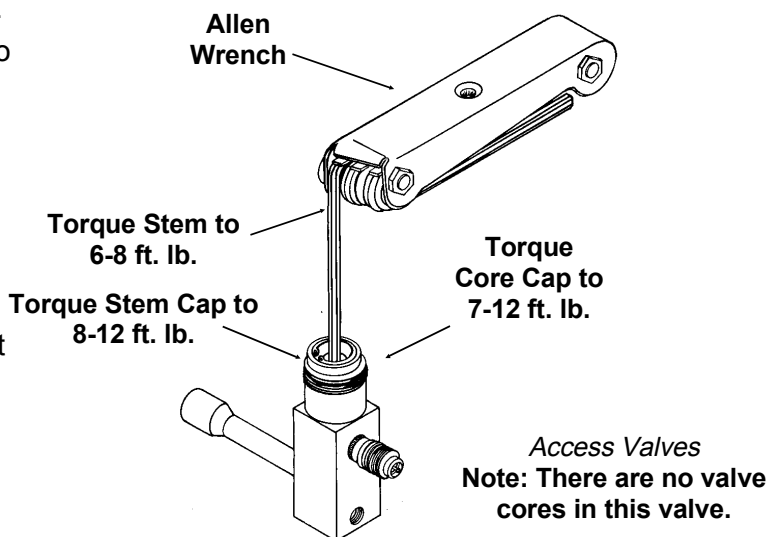
Work on the refrigeration system should only be done when it is certain that the system needs repair.

- **Refrain from checking refrigeration pressures without reason.** Visual inspection of the water system, observation of the ice formation, amp draw, voltage, and other techniques will lead to proper diagnosis. Scotsman also recommends that, at the time of initial start up, gauges not be used.
- If gauges must be used, don't always check the high side pressure. If the condenser is clean and seems to be operating correctly, it most likely is. The low side pressure is more important on an ice machine than the high side.
- If gauges must be used, use very short hoses to minimize refrigerant discharged into the air.
- Refrigerant should not be added except as a way to determine the proper operation of the product. If the system was low on refrigerant, there is a leak, and it must be found and repaired.
- This system has a critical charge, it must be recharged with the correct amount of refrigerant as listed on the nameplate of the ice machine, or performance will suffer.
- Anytime the refrigeration system has been opened, the dryer should be replaced. **Note: Only a HFC type dryer should be used.**
- When brazing the tubing connections to components such as the TXV, the component must be protected by heat sink material.

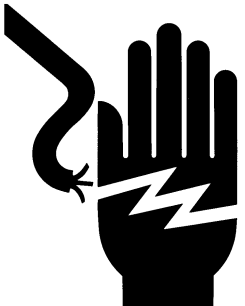
Recover, reclaim or recycle refrigerant. The method chosen is up to the service company. Any refrigerant placed into a Scotsman ice machine must meet ARI spec 700-88. Reclaim programs are available through most refrigerant wholesalers.

Access Valves: To use the access valves: Remove the cap from the stem, use a 3/16" allen wrench to check that the valve is CLOSED. Then remove the core cap.

Close the valve and replace the caps when the job is finished. The valve must be closed and the caps must be on or the valve will leak.



ELECTRONIC CONTROL TESTER

	⚠ WARNING
	<p>Electrical shock hazard.</p> <p>Electrical power can cause personal injury. Disconnect electrical power before beginning.</p>

INSTRUCTIONS FOR USING TESTER

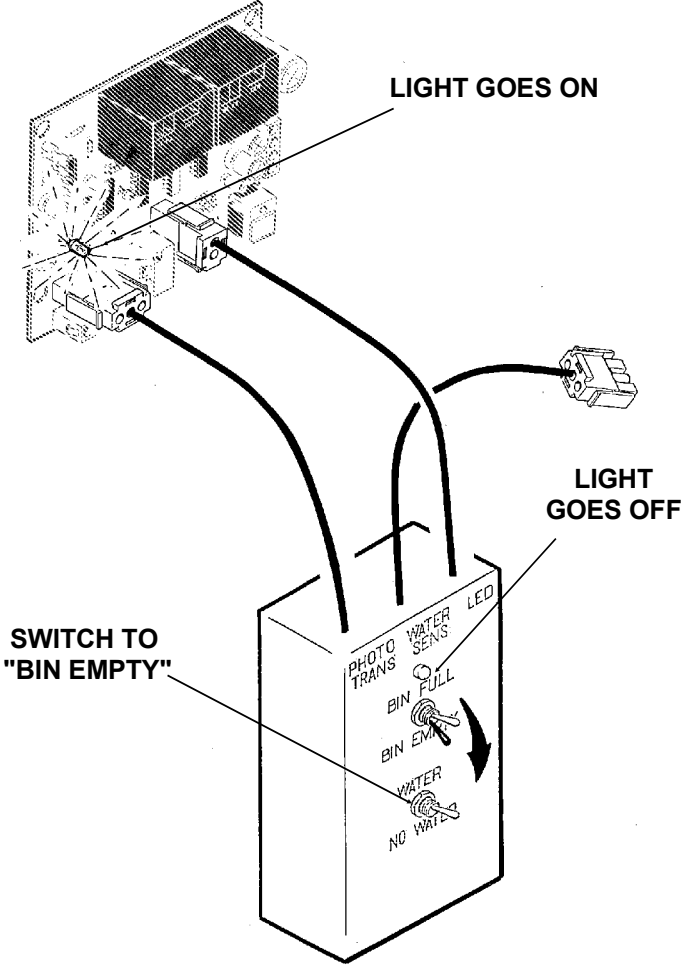
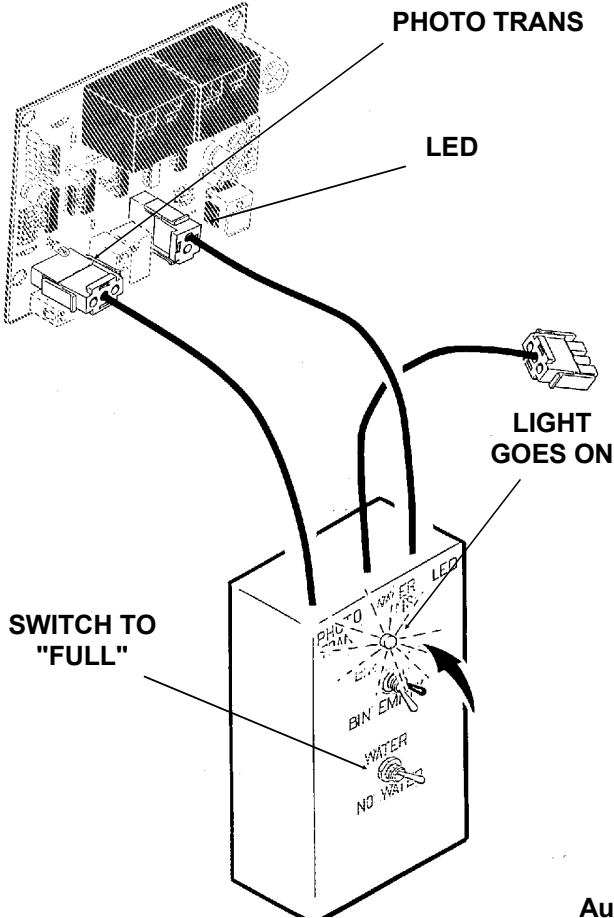
(Optional, order part no. A33942-001)

(These instructions assume that the unit will not run, and prior investigation of electric power, controls, and mechanical parts indicates that the electronic circuit may be at fault.)

Bin Control *Note: All testing is done with the electrical power on, the master switch on, and all reset switches "reset".*

1. Unplug "photo trans" and "LED" connectors from the circuit board.
2. Plug "photo trans" and "LED" connectors from the tester into the circuit board.
 - a. Move the "bin full" switch on the tester to Full. The light on the tester should be ON. If the light on the tester is not on, the circuit board should be replaced.

- b. If the light on the tester IS on, move the "bin full" switch to Bin Empty. The light on the tester should go OFF, and the Bin Empty light on the circuit board should go ON. If the machine still does not run, replace the ice level sensors.



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Water Level

1. Unplug "water sen" connector from control board.

2. Plug "water sen" connector from Scotsman tester into circuit board.

a. Move "water" switch on tester to No Water position. The No Water light on the circuit board should go ON. If not, replace the circuit board.

b. Move the "water" switch on the tester to the Water position. The No Water light on the board should go OFF. If not replace the circuit board. If the light does go off, replace the water level sensor.

