MANITOWOC ICE
2110 SOUTH 26TH STREET, MANITOWOC, WI 54220

800-545-5720
WWW.KOOL-AIRE.COM

KOOLAIRE®

Instruction Sheet

Subject: Koolaire LuminIce® II Installation

K00520, K00521

⚠Warning

Authorized Service Representatives are obligated to follow industry standard safety procedures, including, but not limited to, local/national regulations for disconnection/ lock out/tag out procedures for all utilities including electric, gas, water and steam..

DANGER

Disconnect electric power to the ice machine at the electric switch box before proceeding. Failure to disconnect the power at the main power supply disconnect could result in serious injury or death. The power switch DOES NOT disconnect all incoming power.

DANGER

- Two or more people are required to move this equipment to prevent tipping.
- Locking the front casters after moving is the owner's and operator's responsibility. When casters are installed, the mass of this unit will allow it to move uncontrolled on an inclined surface. These units must be tethered/secured to comply with all applicable codes.

Compatible Koolaire models

- Self-contained air or water-cooled models
- Remote condenser air-cooled models

LuminIce®II

The LuminIce®II growth inhibitor recirculates the air in the ice machine foodzone over a UV bulb. This process will inhibit the growth of common micro-organisms on all exposed foodzone surfaces.

All LuminIce®II bulbs require replacement on a yearly basis. Although the bulb will still illuminate after 12 months, the effectiveness of the bulb diminishes as operational hours increase. To retain maximum effectiveness, replace the bulb on a 12 month schedule.

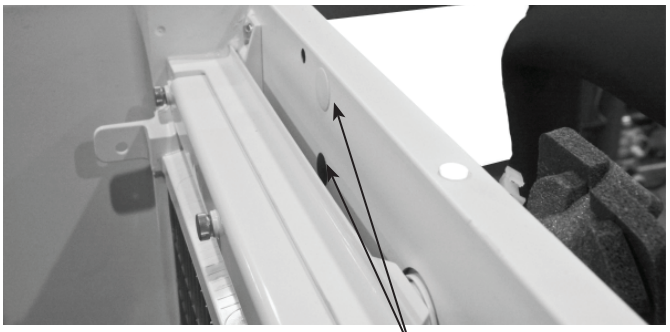
LuminIce® II has an indicator light that will illuminate red when the bulb needs replacement. A remote LED is available as an accessory (K00455) to allow the reminder to be viewed without removing the ice machine panels..

K00520 22” and 30” Wide - Single Evaporator

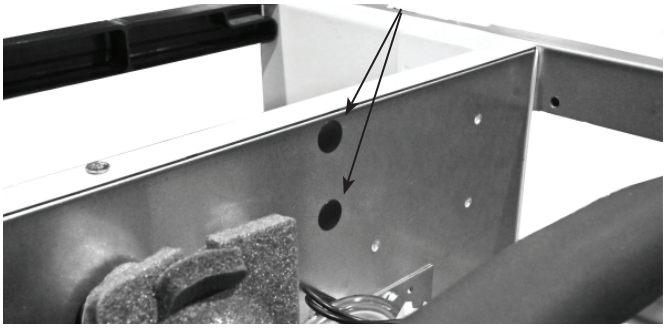
COMPONENT PARTS INCLUDED IN THE KIT:

Description	Qty
LuminIce II Assembly	1
Evaporator Dust Cover – 22 Inch	1
Evaporator Dust Cover – 30 Inch	1
Evaporator Dust Cover – KT1000 Only	1
LuminIce Mounting Bracket	1
Long Bulkhead Fitting	1
Short Bulkhead Fitting	1
Tubing Clamp Snap	1
Snap Bushing	1
Adhesive Wire Clip	1
Tube LuminIce - 4.5 Inch - Short	1
Tube LuminIce - 7.25 Inch - Long	1
Screws	6
LuminIce Label	1
LuminIce Shield Decal	1
LuminIce Low Voltage Harness	1
White Silicone - 3 ounces	1

1. Disconnect all power to the ice machine at the electrical disconnect.
2. To allow access for the LuminIce® tubing, the evaporator dust cover and plastic caps in the evaporator and compressor compartment bulkhead wall must be removed and discarded.



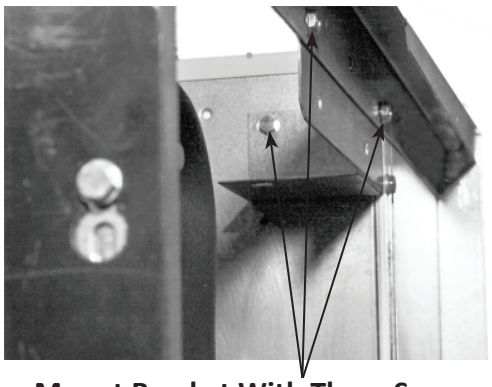
Remove Plastic Caps From Bulkhead In The Evaporator And Compressor Compartment



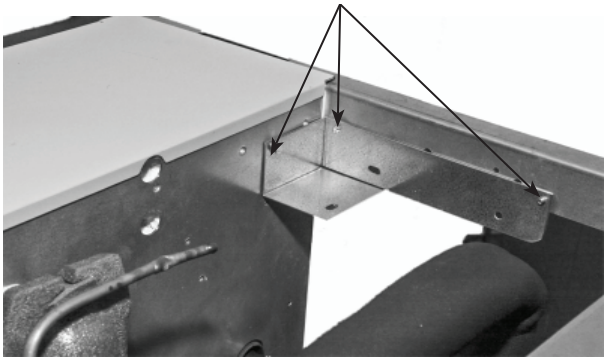
3. Install snap bushing to bulkhead.



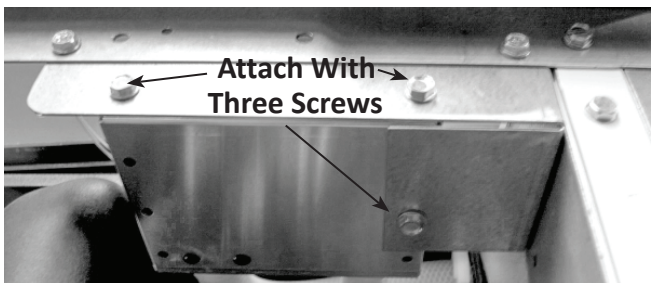
4. Assemble bracket to left-hand top rail with three provided screws.



Mount Bracket With Three Screws



5. Assemble LuminIce® to bracket with three screws provided. The bulb and bulb wiring must face toward the rear of the ice machine to allow bulb replacement with LuminIce® in place.



6. Refer to the pictures below.
   - Install the LuminIce® hoses. Apply silicone to the short and long LuminIce® tubes along the side that inserts into the bulkhead. Apply pressure to secure to bulkhead. The shorter tubing adapter inserts to the bottom hole and is the air intake and connects to the gray pipe of the device. Fasten the hose to the device pipe with a hose clamp. The longer tubing adapter inserts into the top hole and is the air exhaust and connects to the silver pipe of the device. Fasten the hose to the device pipe with a hose clamp.



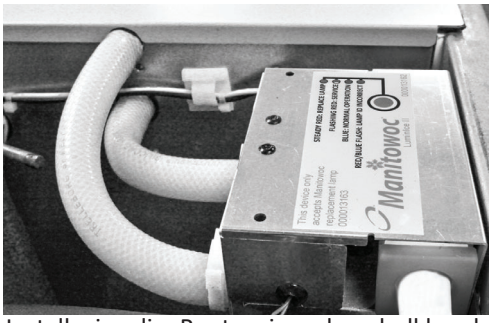
Apply Silicone



Bulkhead Fittings

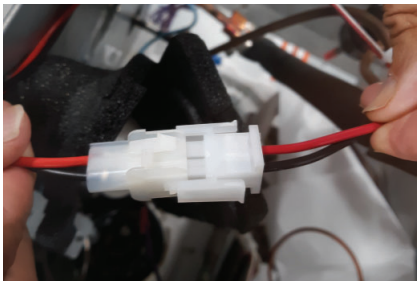


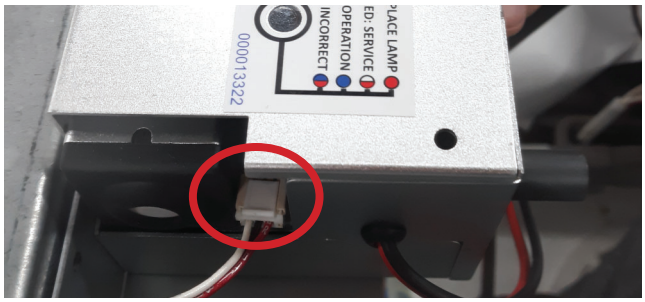
Front View - Bulkhead Fitting Installed



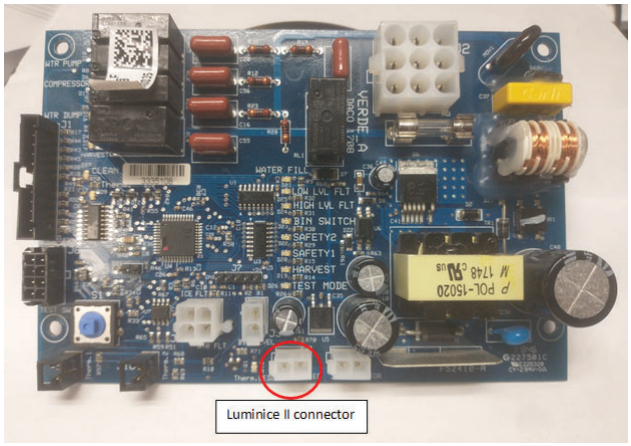
Install wire clip. Route wires along bulkhead.

7. Connect the LuminIce® power cable to the wire harness using the molex connector. Then connect the small end status wire to the LuminIce® by snapping into the device terminal.





8. Route the low voltage wiring harness through the control box Heyco fitting. Connect the low voltage wiring harness to the control board connector.
9. Install the wire clip to the back of the evaporator bulkhead and bundle the wires close to the bulkhead so they are away from moving or energized parts.



10. Test run the ice machine and LuminIce®. A noticeable draft will be emitted from the upper hose adapter during operation.
11. Install the notched evaporator dust cover from the kit. Snap-in covers - the 22” machines use the shorter dust cover. The longer cover goes with 30” wide machine. KT1000 uses the 30” cover that clips in.

K00521 48” Wide Single Evaporator Models

COMPONENT PARTS INCLUDED IN THE KIT:

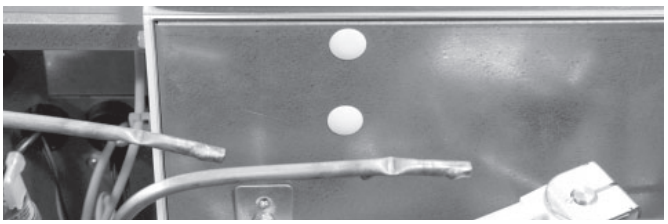
Description	Qty
LuminIce II Assembly	1
Evaporator Dust Cover – 48 Inch	1
Long Bulkhead Fitting	1
Short Bulkhead Fitting	1
Tube LuminIce 24”	2
Tubing Clamp Snap	2
Snap Bushing	2
Adhesive Wire Clip	1
Self-Tapping Hex Head 10-24, 1/2” Long Screw	2
LuminIce Label	1
LuminIce Shield Decal	1
LuminIce Low Voltage Harness	1

DANGER

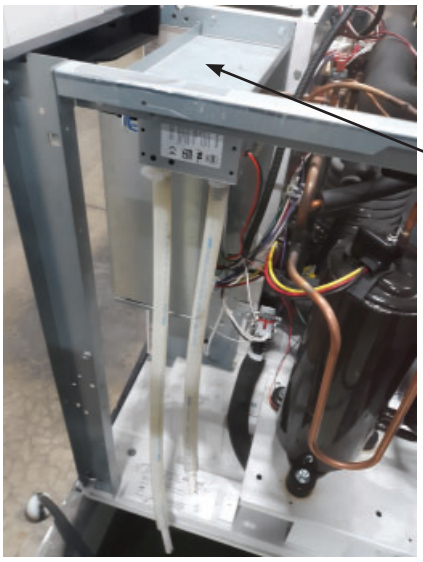
Disconnect electric power to the ice machine at the electric switch box before proceeding. Failure to disconnect the power at the main power supply disconnect could result in serious injury or death. The power switch DOES NOT disconnect all incoming power.

1. Disconnect all power to the ice machine at the electrical disconnect.
2. To allow access for LuminIce® tubing, the plastic caps in the evaporator and compressor compartment bulkhead wall must be removed and discarded. Remove the evaporator dust cover to access amd remove the lower cap.

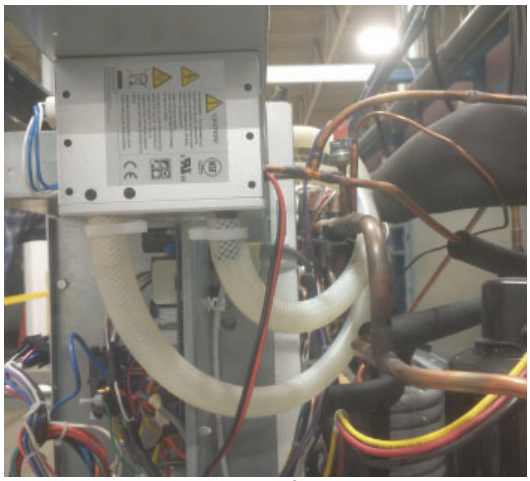




3. Assemble tubing to LuminIce® and secure with hose clamps.
4. Remove the bulkhead support bracket from the ice machine.
5. LuminIce® mounts to the bottom of the bulkhead support bracket, reattach bracket to ice machine once LuminIce® is secured.



6. Route LuminIce® hoses to evaporator and attach.

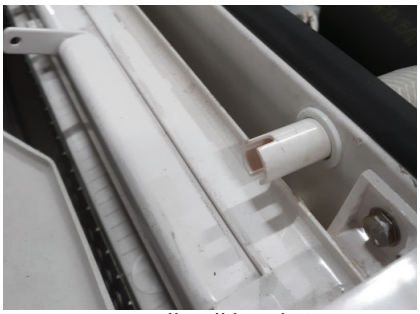


Overview of Routing

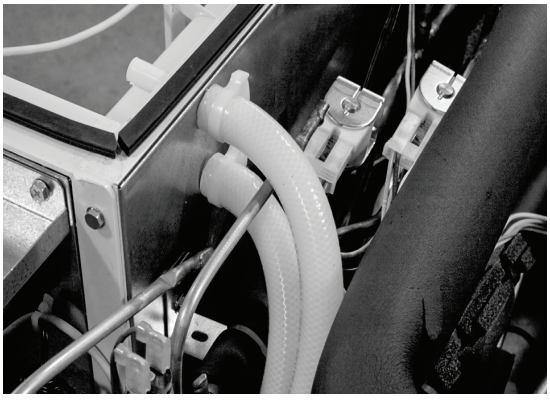
- Insert the lower intake hose with the shorter hose adapter, into the lower evaporator bulk head hole and connect it to the gray intake pipe of the LuminIce® device.
- Insert the top exhaust hose with the longer hose adapter into the upper evaporator bulkhead hole and connect it to the silver pipe of the LuminIce® device.
- Reinstall the new evaporator dust cover with cutout for the LuminIce® bulkhead fitting (exhaust).



Snap Bushing Location

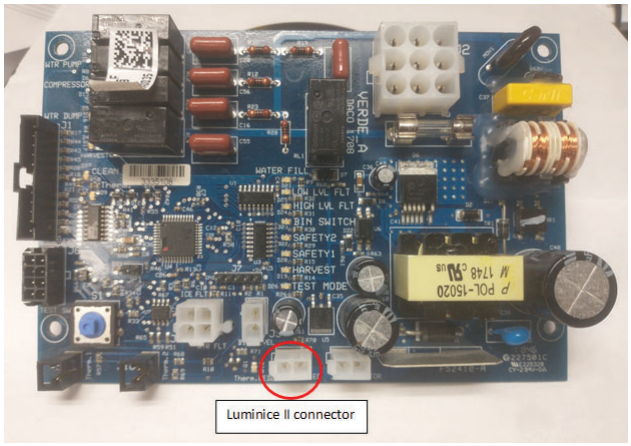


Install Bulkhead Fitting



7. Connect the low voltage wiring harness to the control board connector and route the low voltage wiring harness through the control box Heyco fitting.

8. Connect the luminice power cable to the wire harness using the molex connector. Then connect the small end status wire to the LuminIce® by snapping into the device terminal.





9. Test run the ice machine and LuminIce® II. A noticeable draft will be emitted from the upper hose adapter during operation.