



Project in Pictures

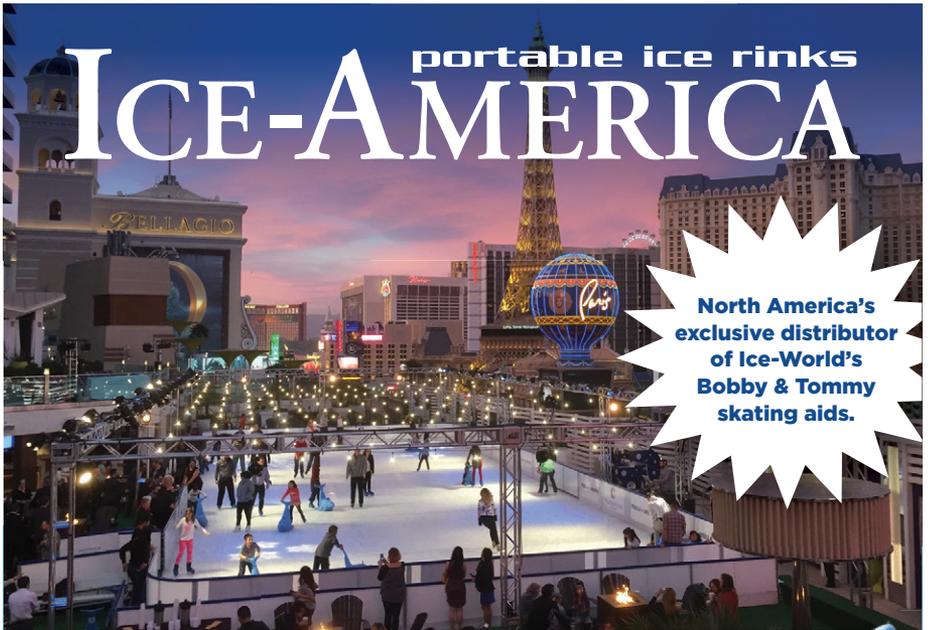
# Buzzer Beater

Inside Mullett Ice Center's race to replace its condenser in one day with the ice in // *By Craig Petersen, CIRM*

**T**he Mullett Ice Center in Hartland, Wisconsin recently completed a one-day condenser replace while keeping ice in. Here is what I did to prep the building, photos of the project, and what was happening to my building during the planned shutdown.

## PREP

1. Dropped building air temperature to 38 degrees five days before
2. Dropped ice temp 5 degrees the day before
3. Dropped humidity 10% two days before
4. Shut off lobby/locker room/office/garage heat the day before
5. Turned off dehumidifier the morning of
6. Kept rink lights off
7. No renters on the ice until 5:30 p.m. the day of
8. Cleaned out the area around old condenser
9. Ordered chemical for the passivation process for the new unit 3 weeks ahead of time



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1a: Old water tank/pump  
1b: Old piping to the old unit  
1c: Old unit (23 years old)

1a



1b



1c



2a

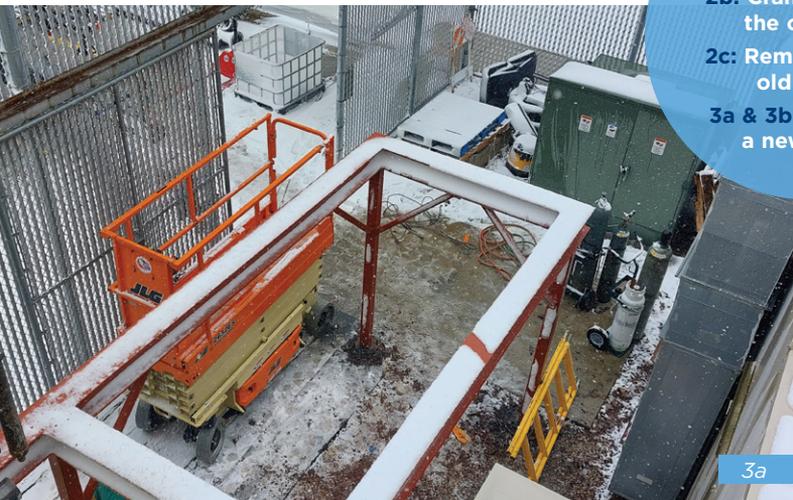


2b



2c

2a: Cut the piping to the old unit  
2b: Crane removes the old unit  
2c: Removal of the old stand  
3a & 3b: Installing a new stand



3a



3b

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4a: New unit unloaded  
4b: Craned into place

4a



4b

## TIMELINE

### 4 a.m. Shut down refrigeration system

Outside air temp: 30 degrees  
Outside RH (relative humidity): 90%  
Building RH: 40%  
Building air temp: 40 degrees  
Ice surface temp: 16 degrees

### 11 a.m. (7 hours without refrigeration)

Outside air temp: 38 degrees  
Outside RH: 82%  
Building RH: 44%  
Building air temp: 46 degrees  
Ice surface temp: 26 degrees

### 5 p.m. (13 hours without refrigeration)

Outside air temp: 38 degrees  
Outside RH: 80%  
Building RH: 51%  
Building air temp: 43 degrees  
Ice surface temp: 30 degrees

### 7 p.m. Startup of the refrigeration system (15 hours without refrigeration)

U10 on the ice at 5:30 p.m.  
Dry shave for the U12s at 6:45 p.m.  
Dry shave for the U12s at 8 p.m.  
Normal ice/building temps and humidity levels by midnight the day of the shutdown

**Project cost: \$130,000** 🌟



5a



5b

5a: New connected unit  
5b: New water tank and pump



→ Left ice dirty to help insulate; lights and HVAC off



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