

**From:** Bob Cushing  
**Sent:** January-06-21 9:47 PM  
**To:** Chris Frotten <[cfrotten@barringtonmunicipality.com](mailto:cfrotten@barringtonmunicipality.com)>  
**Subject:** BRCC Ice Making Plant

To: Warden and Counselors, Municipality of Barrington

From: Barrington Regional Curling Club

An essential component of the Ice Making Plant at BRCC has been identified as needing replacement, this being the Evaporative Condenser, that performs the function of converting the refrigerant from a heated vapor to a cooled liquid, by the evaporation of water sprayed on the cooling fins of the unit. The unit is located in a steel framed tower exterior to the building, connected by piping through the exterior wall.

BRCC has had continuous problems with the unit over the past several years, caused by leaking water, which freezes under certain conditions, preventing the fans from operating, and shutting down the whole system, as well as problems with the mechanical aspects, such as belts, pulleys, motor etc., the piping also is rusted and in poor condition.

A representative from BP Mechanical, the refrigeration contractor hired by the MOB to look after our ice making plant, has assessed the unit and strongly recommended full replacement, sooner, rather than later. He has indicated that a refurbishment would be as costly as a full replacement.

At a life of 20 years, or so, it is common for these units to require replacement, as was the unit at the Sandy Wickens Arena, and at Shelburne Curling Club, for example.

A quote from BP mechanical was sent to the MOB Public Works Supervisor, and he has gone out for quotes from other companies.

The cost of replacing this unit is high (see quotes), but is necessary for continued operation of the BRCC. In the recent past the MOB has replaced, and/or upgraded several components of our ice making plant making it much more efficient and reliable to operate. With the replacement of the Evaporative Condenser most of the major components of the system will have been addressed, the exception being the chiller, the life of which is unknown, but it's cost would not be nearly as high as the Evaporative Condenser.

There are options to assist with the cost of replacement, one being a grant that is being looked into, the other being a possible contribution from the BRCC to cover some portion of the cost, this being dependent on our situation at year end.

If the decision is to replace the unit, it would have to be done in the off season. With a delivery of 8-10 weeks, it would have to proceed so that work could be completed prior to ice installation for the curling season.

A group of interested members of the BRCC, would like to attend the MOB meeting when this item will be on the agenda for consideration, to answer any questions, or address concerns.

Thank you for your continued support of the BRCC.

Bob Cushing  
for BRCC Board of Directors  
Jan. 6, 2021