

July 2, 2009



**CITY COUNCIL  
COMMITTEE REPORT**

**TO: MAYOR & COUNCIL**  
**FR: Colleen Neil – Recreation Services Manager**  
**RE: Keewatin Arena**

**BACKGROUND:**

In preparation for summer ice at the Keewatin Arena the ice plant was inspected in anticipation of a seasonal plant overhaul and start up. The following will be required in order for the City to install and maintain ice for the 2009-2010 season at the Keewatin Memorial Arena.

1. **Supply and installation of Ammonia Detection system in the Keewatin Arena:** *The CSA B52 Mechanical Refrigeration Code outlines the specific requirements for ventilation pertaining to ammonia refrigeration systems. This code includes the provisions for a detection system and ventilation. (\$4,937 + gst)*
2. **Brine Pump replacement:** *For the supply and installation of replacement brine pump and motor. The brine pump is old and leaking very badly. Because of the age of the pump and motor a rebuild at this time would not be feasible as the equipment has more than outlived its life expectancy. Its replacement will also allow us to see benefits in energy consumption. (\$7,794 + gst)*
3. **Ammonia Thermo-Stor tank replacement:** *The Thermo-Stor Heat Recovery tank has rusted through and is out of service. Heat recovery is a cost-effective technology for the Arena. The energy released during the refrigerant compression cycle can be converted to hot water. Pay back for the Thermo-Stor Heat Recovery Unit is 2 years. (\$8,255 + gst)*
4. **Discharge Thermometer, Water Pump repair:** *Repair the condenser water pump discharge piping that is currently leaking. (\$1,168 + gst)*
5. **Evaporative Condenser repair from water leaks:** *(\$6,598 + gst)*
6. **Brine Chiller feed end head inspection:** *Overdue and will need be done to establish life expectancy of the chiller which has exceeded it's life expectancy (\$2,427 + gst)*

All work done does not include welding (if needed)

**BUDGET:**

mechanical \$ 31,179 + gst

electrical \$ 3,500 + gst

These costs will need to be funded through reserves as they were not accounted for in the 2009 operating budgeet.

**COMMUNICATION PLAN/Notice By-law Requirements:**

Council, CAO, Finance and Administration, City Clerk, Recreation Services Manager

**RECOMMENDATION:**

THAT the following request for proposals for the Keewatin Memorial Arena be received:

<i>Company/ Supplier Name</i>	<i>Amount</i>	<i>*Note</i>
Gateway Mechanical	\$ 2,032.00 + gst	Ammonia Detection Upgrade
<b>** Cimco Refrigeration</b>	<b>\$ 4,937.00 + gst</b>	<b>Ammonia Detection Upgrade &amp; Detector Calibration</b>
Gateway Mechanical	\$15,612.00 + gst	Brine pump, valves, thermo-stor tank replacement.
<b>** Cimco Refrigeration</b>	<b>\$16,049.00 + gst</b>	<b>Brine pump, valves, thermo-stor tank replacement.</b>
<b>** Cimco Refrigeration</b>	<b>\$ 1,168.00 + gst</b>	<b>Discharge Thermometer and Water Pump repair.</b>
<b>** Cimco Refrigeration</b>	<b>\$ 6,598.00 + gst</b>	<b>Repair to Evaporative Condenser.</b>
<b>** Cimco Refrigeration</b>	<b>\$ 2,427.00 + gst</b>	<b>Brine Chiller feed end head inspection.</b>

And THAT the following request for proposals from Cimco Refrigeration for the Keewatin Memorial Arena be hereby accepted:

Cimco Refrigeration	\$ 4,937.00 + gst	Ammonia Detection Upgrade & Detector Calibration
Cimco Refrigeration	\$16,049.00 + gst	Brine pump, valves, thermo-store tank replacement.
Cimco Refrigeration	\$ 1,168.00 + gst	Discharge Thermometer and Water Pump repair.
Cimco Refrigeration	\$ 6,598.00 + gst	Evaporative Condenser repair from Water Leaks.
Cimco Refrigeration	\$ 2,427.00 + gst	Brine Chiller feed end head inspection.