

Project:
Ammonia Ice Rink Refrigeration
System

Client: Meadowvale Four Rinks
Year: 2021

Solution: Ammonia chiller
replacement and mechanical room
upgrade for a municipal ice rink



Features:

- Shell and tube chiller replaced with Alfa Laval Plate and Frame ammonia chiller with U-turn assembly
- Danfoss motorized expansion valve and level probe
- New evaporative condenser with VFD fan control and condenser stand
- New HPR
- Conversion of compressor jacket cooling of new condenser to an auxiliary glycol coil
- New ammonia room ventilation control panel and 2-speed exhaust fan
- New exterior double doors and vestibule door
- Replacement and repositioning of new condenser next to electrical room to prevent water leakage

Highlights:

-  Custom Engineered
-  Ammonia
-  Factory Tested
-  Build-in-place
-  Start-up
-  Installation

Lifecycle replacement of major equipment at a municipal ice rink, including an ammonia chiller replacement and upgrades of its mechanical and electrical rooms. Scope of supply included shell and tube chiller replacement with Alfa Laval Plate and Frame with U-turn assembly, Danfoss motorized expansion valve and level probe, new evaporative condenser with VFD fan control and condenser stand, new HPR, conversion of compressor jacket cooling of new condenser to an auxiliary glycol coil, mechanical room upgrades: new ammonia room ventilation control panel, new 2 speed exhaust fan, new exterior double doors and vestibule door, electrical room: removal of old condensers on the roof of electrical room and replaced with a new condenser on a new stand next to electrical room to prevent water leakage on electrical room.

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