

## Abbott Point-of-Care Walk-in Storage Cooler

Corkstown Road, Ottawa.

### Project Statistics

Area description:	Walk-in Cooler
Area size	7,000 sq. ft.
Project budget	\$750,000

### Responsibilities

Complete design of a close temperature controlled walk-in cooler.

### Services Provided

- ▣ *Prime Consultant*
- ▣ *Project management*
- ▣ *Architectural design*
- ▣ *Mechanical design*
- ▣ *Fire protection design for product liability*
- ▣ *Electrical design*
- ▣ *Project commissioning*

### Project Objectives

Provide a walk in cooler for the storage of finished cartridges for the clients finished product inventory.

Provide a primary and back-up cooling system to ensure the finished product inventory is stored at the correct temperature.

To adhere to strict temperature specifications to pass Abbott strict validation requirements.

### Challenges

To build a cooler in an existing facility with the knowledge that if the temperature is not maintained as specified, millions of dollars worth of inventory would be lost.

To design an HVAC system capable of maintaining 5°C +/-5°C year-round that is also fully redundant.

To provide mechanical systems capable of providing the close tolerance conditions.



### Solutions and Successes

- ▣ Used close tolerance design to ensure proper fit in restricted space of ceiling.
- ▣ Maintained required specifications from clients specifications.
- ▣ Utilized process water from the cooling tower as well as air cooled condensers, all located in the ceiling space, to provide a fully redundant and reliable system.