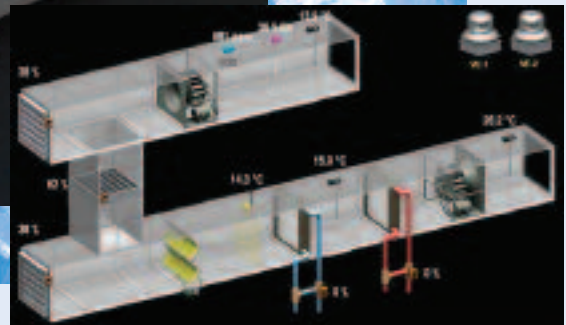


INNOVATORS IN REFRIGERATION AND COOLING TECHNOLOGIES

# Eco Dry™ Ventilation and Dehumidification System



**Saves you money by shifting dehumidifier energy usage to off-peak hours**

**TOROMONT**

**CIMCO**

# Eco Dry™ Ventilation and Dehumidification System



ECO DRY is an “add-on” option to the ECO CHILL\* refrigeration system that provides improved air quality, increased refrigeration efficiency and added “no cost” heating for the arena.

ECO DRY is a three-fold system:

- ventilation unit using outdoor air to improve the indoor ice rink environment
- heating system using the ECO CHILL Thermal Equalizer’s warm glycol to heat the arena
- dehumidification and cooling system utilizing the ECO CHILL Ice Battery’s cold glycol

## Outside Air Conditions

Warm, Dry Air	Warm, Humid Air	Cool, Dry Air	Cool, Humid Air
ECO DRY cools building using Ice Battery’s cold glycol	ECO DRY cools and dehumidifies building using Ice Battery’s cold glycol	ECO DRY warms building using Thermal Equalizer’s warm glycol	ECO DRY dehumidifies using Ice Battery’s cold glycol, and then warms building with Thermal Equalizer’s warm glycol

Cimco’s patented ECO SENSE\* control system is used to control all aspects of the system. At night during the ice-making process, the ECO DRY system uses the excess heat to warm the building, while during the day it dehumidifies the arena with the stored ice from the Ice Battery. This provides free overnight building heat, while shifting the energy consumed for dehumidification to the night-time when rates can be significantly lower than day-time rates.

Tests demonstrate that the cold glycol coil is needed only in conditions where outside air is equal to or above rink temperature. In most months of the year the outside air is sufficient to keep humidity levels at 20 to 30% RH with the benefit of better air quality for the occupants.

The ECO DRY system eliminates the expense of buying and operating a separate air-conditioning system. Units can be designed and built to meet the specific requirements of any arena facility.

\*ECO CHILL and ECO SENSE are CIMCO Refrigeration innovations protected under Canadian patent 2,459,624 and US patents 7,032,398 and 7,231,775

**Over 4,500 ice surfaces installed around the world!**



### CIMCO REFRIGERATION

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