

TOROMONT

CIMCO

LEADING THE WAY TO A CARBON-NEUTRAL FUTURE

Changes in our environment are affecting everything from energy prices to weather patterns. The only thing that's certain is uncertainty. We designed CIMCO iQ as a solution that empowers you with essential insights to optimize every facet of your daily operations, irrespective of external fluctuations. While intelligent in design, CIMCO iQ is intuitively simple, aimed at keeping costs down and reducing emissions to meet net-zero targets, all while upholding safety standards and ensuring top-tier ice quality.

Recognized as a leader in sustainable refrigeration, we are North America's largest supplier of thermal solutions catering to industrial, recreational, and commercial sectors. Renowned as a forerunner in providing environmentally-friendly ice systems, we take pride in our ability to engineer world-class technology and deliver outstanding service to our customers.

Throughout our legacy of more than 100 years, we have been leaders in designing and implementing innovative and future-ready solutions. We are committed to our vision to be your first choice for systems and services in thermally-controlled environments.

READY TO TAKE THE NEXT STEP TOWARDS PERFECT ICE?

Contact us today to learn more about CIMCO iQ.

CIMCOREFRIGERATION.COM/iQ

TOROMONT

CIMCO



iQ

INTELLIGENT ICE.
SIMPLIFIED.

EXCEPTIONAL ICE. EVERY TIME.

We've always believed that everyone deserves to skate on a flawless, safe ice surface, whether that's a small community arena where tiny skates are laced up for the first time, or a 17,000-seat facility where the world's top athletes compete.

We also know that ice rink owners and operators face more obstacles than ever before to deliver on that promise. External forces like rising energy prices, extreme weather caused by global warming, and the ambitious net zero mandates put in place by governments to stop it. Not to mention internal pressures such as tight budgets and short staffing.

CIMCO iQ is a sophisticated automation system designed to face these obstacles head on—and keep you in control of your ice surface and your facility's environment, even when the world is in flux.



CIMCO iQ

sim-kō i-kyū

noun

1. Ice Quality + Intelligent Quotient = the smartest way to make the perfect sheet of ice.
2. Delivers the best possible experience for athletes and spectators alike.
3. Reduces energy consumption, cuts costs, and prevents emergency breakdowns for peace of mind and your bottom line.

EVERYTHING YOU NEED TO KNOW ABOUT YOUR ICE.



MONITORING MADE EASY

From ice conditions, to what's happening outside a facility's four walls, stay in control of your refrigeration system, whether you're on site or not.



ALWAYS OPTIMIZING

With data comes confidence, and the ability to adapt quickly. Improve efficiency and safety by empowering facility operators to pivot in real-time, and prevent future issues.



STREAM SMART DATA

You can't control what you can't see. Capture info from multiple sources—dynamic modes, thermal imaging, advanced sensors and analytics—for informed decision-making.

iQ FEATURES

iQ PACKAGES

CIMCO iQ. DESIGNED BY YOU.

Every facility is as unique as the people using it.
That's why our systems are curated
to give you complete control.

iQ

iQ+

iQ
ELITE

iQ ESSENTIAL

The foundation for exceptional ice.

- Comprehensive refrigeration equipment control, covering pumps, compressors, condensers, heat exchangers, etc.
- Industry-leading controller hardware with BACnet for easy BMS integration
- Temperature control via infrared camera for consistent ice quality
- Web-server-based operator interface for accessibility from any network device
- Robust alarming system to identify precise malfunctions with email and text notification capabilities
- Equipment run hour tracking to support maintenance planning
- Dedicated desktop PC and monitor setup for operator convenience

iQ ENERGY

- Designed to help you keep costs down and reduce emissions to hit net zero targets.
- Floating head pressure for optimized heat rejection and energy use
 - Energy management schedules, including night setback
 - Unlimited minute-by-minute data collection on rink, compressor, and condenser for rapid diagnosis, minimal downtime, and performance measurement

iQ ANALYTICS

- The more you know, the better your ice will be. Stay on top of things with this data-driven bundle.
- Enhances system insight with 45+ additional sensors
 - 25+ algorithms to detect safety, reliability, and efficiency issues
 - Supports downtime reduction with maintenance planning countdown and notifications
 - Stores power monitoring data for in-depth energy analysis

iQ PERFORMANCE

- Includes all available features to deliver optimal performance.
- Custom iQ Elite Mobile App for remote monitoring
 - NHL-required game conditions reporting
 - Wireless air temperature/humidity sensors for easy board installation/removal during non-hockey events
 - NHL Mode for quicker equipment response and manual control
 - Proactively adjusts refrigeration control in sync with the game clock before ice resurfacing
 - Provides comprehensive ice data via the iQ Vision thermal imaging camera
 - Features an ice tempering system

iQ CONNECT

- Your peace of mind, guaranteed.
- Warranty program
 - Adaptable customization

iQ ESSENTIAL



iQ ENERGY



iQ ANALYTICS



iQ PERFORMANCE



iQ CONNECT

12 months

18 months

24 months

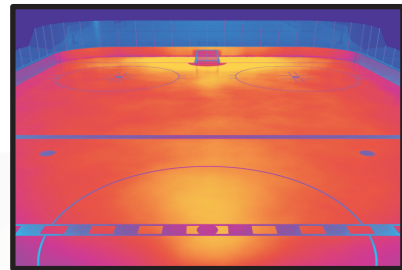


iQ ELITE SIGNATURE FEATURES



iQ VISION Thermal Imaging Camera

Introducing iQ Vision, the thermal imaging camera designed to detect temperature variations on the ice surface with unparalleled precision. With thousands of temperature points, it identifies cold and warm spots in real-time, allowing you to swiftly address potential issues and take appropriate measures. Upgrade your temperature analysis game and stay one step ahead with iQ Vision.

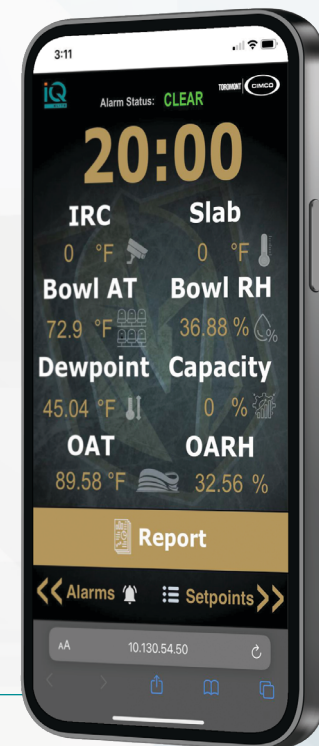


- Incorporates a total of 91,000 distinct temperature points
- Capable of reading numerous individual measuring areas as needed
- Capture records or screenshots manually or programmatically at designated times, including before, during, or after games
- Displays ice temperature variations through a gradient color scale, enabling visualization of ice surface quality and its dynamic changes at specific points

iQ ELITE MOBILE APP Enhancing control and convenience

Unlock intelligence, control and convenience with the iQ Elite Mobile App. This dynamic app empowers you to effortlessly adjust setpoints, ensuring they automatically synchronize with your CIMCO control system. No need to access the plant computer—now you can modify setpoints and monitor alarms with ease, directly from your phone.

The app reads multiple data points directly from the control system and seamlessly imports them onto your smartphone. Monitor the arena's conditions from any location with an internet connection, facilitated by the app's remote accessibility.



INTELLIGENT ICE TRACKING: DESIGNED BY PROS, MADE FOR EVERYONE.

We've installed more than half of the world's ice rinks. We know what it takes to make impeccable ice, and we understand the challenges and changing dynamics our industry is facing.

As we built the CIMCO iQ prototype, we talked to another team of ice experts. They run one of North America's largest entertainment venues, based in southern Nevada, where the ice needs to be top notch despite the often record-breaking temperatures outside. They told us what their dream ice rink automation system would look like—and we brought it to life.