2023 GCCA & CEBA Cold Chain Innovation Showcase & Buyers Guide

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GCCA & CEBA Cold Chain Innovation Showcase & Buyers Guide

GCCA & CEBA Cold Chain Innovation Showcase & Buyers Guide is published once a year by the **Global Cold Chain Alliance (GCCA)**, an organization that unites partners to be innovative leaders in the temperature-controlled products industry.

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About the Cover

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Arctic Cold's lemon processing and storage facility, designed and built by Fisher Construction Group, was a 2022 CEBA Built by the Best Finalist. (Photo courtesy of Fisher Construction Group.)



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WELCOME MESSAGES FROM GCCA LEADERS

Driving Value

N BEHALF OF THE CEBA EXECU-TIVE COMMITTEE AND BOARD OF DIRECTORS, I'M HONORED TO UPDATE YOU ON OUR ORGANIZATION'S CONTINUED GROWTH AND INITIATIVES TO CONTRIBUTE EVEN MORE VALUE TO THE INDUSTRY. I'm pleased to share the state of the CEBA organization is strong and continuing to grow.

The CEBA Board of Directors has undertaken transformative work over the last few years. As we came out of the pandemic, the CEBA Executive Committee collaborated closely with GCCA leadership to strengthen our governance with new bylaws; formalize an annual management agreement with dedicated staff resources; and bring a renewed focus on executing CEBA strategic priorities to drive enhanced value.

As a result, our organization's topline has doubled from pre-pandemic levels.

More importantly, CEBA is driving value in our industry like never before.

CEBA's strategic focus continues to be advancing CEBA member recognition in the areas of building talent, promoting value and developing expertise for the controlled environment building and design industry.

Supporting these strategic pillars, CEBA has been hard at work through its Education and Training Committee and tasks forces to develop CEBAPro, a North American-based industry training curriculum and recognition of proof of knowledge. The initial target audience of this training and testing program is general and thermal contractors. Stay tuned for CEBAPro's 2024 launch.

CEBA has active committees focused on Education and Training; Business Development and Marketing; and Building Codes and is launching an International Committee this year. End users are welcome and encouraged to get engaged! To further support our strategic focus on our workforce, CEBA is recognizing top female contributors and leadership talent in the controlled environment building industry and making strides in growing this important segment of our industry. Members of the newly launched Women in CEBA have commented how empowering it is to challenge the stereotype of construction as a male-dominated industry.

CEBA's popular Built by the Best Program is entering its eighth year with more submissions than ever. It's also becoming more global with entries from Africa and Europe this year. Stay tuned for the announcement of this year's finalists at the upcoming CEBA Conference. And for those of you working on innovative projects in the 2024 cycle, we hope to see your submissions next year!

We've been hard at work building additional value into the CEBA Conference and Expo experience.

We've added education sessions, an interactive construction café session, contractor and supplier roundtables, Built by the Best finalist presentations and much more. The CEBA Expo brings the industry's hottest innovations and all things controlled environment building/design related.

We hope you can join us at the 43rd CEBA Conference and Expo at the Omni Rancho Mirage, Palm Springs, California, November 11-14.

It's been a personal and a professional honor to serve as your CEBA Chairman and to be part of the Alliance. On behalf of the CEBA Board of Directors, we are grateful for the powerfully productive and strategic partnership with the GCCA Board and membership! **2**



MARKO DZELETOVICH CEBA CHAIRMAN

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Al promises greater efficiencies and ROI in cold chain logistics.

rtificial intelligence (AI) has the potential to transform many industries and businesses, and temperaturecontrolled warehouses are no exception. Al has been forging its way into the world of logistics and supply chain management, bringing with it a wide range of benefits that can help companies optimize their operations, increase efficiency, reduce costs and improve customer satisfaction.

Labor Shortages and Worker Efficiencies

AI will impact labor shortages and worker efficiency and safety affirms Kaushik Sarda, Senior Director of Supply Chain Solutions, Americold.

"AI will help evolve on-floor operations in several ways, from helping with scheduling activities, such as labor planning/modeling tools, to increasing efficiencies in the building by allowing optimization of work (reducing travel times by predicting and directing work activities)," Sarda says. "Computer vision technology powered by machine learning will also increase safety."

Bobby Kareer, Senior Director of Software Engineering at United States Cold Storage, believes software systems that offer directed task management have the potential to improve efficiency and reduce the labor requirements for the many operational processes in a warehouse.

"At the end of the day, it's about having software systems that are designed to enable directed task management to satisfy key operational functions in an efficient and effective manner," Kareer says. "These capabilities can range from your run-of-the-mill business process automation to more sophisticated systems that use historical data to suggest tasks to provide a net improvement in throughput while minimizing labor."

Kareer says such capabilities can come from statistical models, optimization algorithms or machine learning techniques.

Catherine Lambert, Communication, Employer Branding & Government Affairs Strategist at Congebec, notes the type of AI they are using, and will be using, will not necessarily help with labor shortages but will impact worker efficiency.

"One example is in maintenance by providing more comprehensive data and analysis of temperature and energy efficiency. It will help us better identify areas that need to be made more energy efficient in our facilities," Lambert says. "However, the use of AI will require different qualifications in our employees with AI-related knowledge."

Inventory Management

AI can help warehouse operators improve inventory management through the use of advanced algorithms to predict future demand and optimize stocking levels, leading to more efficient inventory management and reducing the risk of stockouts and overstocking.

"As a 3PL, we are custodians of our customers' products and are responsible for the safekeeping and effective shipping of their orders – this gives us some deep insights into some of the patterns of receipts and orders and available inventory," Kareer says. "This information can help us provide our customer actionable insights and suggestions on how they may want to change their order shapes and inventory levels to reduce waste and improve operating costs during the receiving and shipping processes."

Sarda says with predictive analysis and analyzing demand patterns along with finding correlation to exogenous factors (e.g., weather, geopolitics, economy), inventory management will be far more efficient than when it is manually managed.

"Using AI to simulate multiple strategy scenarios and their impact on inventory on hand will also help executives make better business decisions," says Sarda. "At a tactical level, managing inventory inside of a warehouse should become easier as well with cycle count programs, dock cameras for identifying over, short and damaged (OS&D) etc. There should be significant reduction in inventory shrinkage because AI can help create better processes for auditing requirements and problem-solving."

Smarter Transportation

"At the end of the day, routing is a math problem so higher computing power will certainly help optimize routing capabilities," Sarda says. "But the impact will be bigger in transportation overall rather than route planning because AI can provide additional efficiency in predicting on-time arrivals, which will help warehouse operations better plan resources."

Lambert points out AI could be used to optimize transportation and take into consideration shorter trips to closer locations thereby reducing greenhouse gas emissions.

"There are lots of opportunities to reduce shipping and transportation costs for our customers by analyzing orders for a given customer or by offering options for shared load delivery across multiple customers," says Kareer. "Improved algorithms along with machine-learning techniques can be leveraged to suggest more sophisticated options on how to best satisfy their order fulfillment requirements in the most cost-effective manner."

Predictive Maintenance

Combining AI with IoT sensors will help analyze failure points on machinery in advance to prevent mechanical failures, says Sarda. He points out industrial manufacturers have been using AI for a while.

"Scheduling maintenance activities based on that intelligence will also allow you to manage labor shortages of maintenance experts," Sarda points out. "And AI can help with inventory management of spare parts, directly impacting the bottom line."

Lambert says AI helps to better manage a fleet of equipment used in their facilities in a much more effective and productive way. "Optimizing fleet management is key here as it helps to reduce maintenance on over-used equipment," she says. "It can also help to identify areas of concern to improve energy efficiency leading to a more effective preventative maintenance of our buildings."

ROI and Accessibility

AI is improving warehouse operations overall by automating tasks, optimizing inventory management, reducing labor costs, improving delivery times and reducing equipment maintenance costs. With the help of advanced algorithms and automation technologies, AI can analyze data, make predictions, and provide recommendations that help companies make informed decisions.

"If deployed properly with large training datasets and the right application, there's a definite return on investment (ROI) in AI," says Sarda. "From data mining to robotic process automation, AI's payback in all things inside operations, as well as back-end activities, should be very attractive in years to come."

Sarda adds, when AI is built into greenfield projects, chances of success will be higher.

Lambert points out publicly accessible AI is also definitely accessible to smaller companies.

Sarda agrees. "AI or machine learning gets a scary reputation, but at the end of day, it's essentially training models that predict patterns based on good datasets," he says. "Applications can be varied, and with cloud computing becoming a more accessible service, companies don't have to invest huge amounts of money in infrastructure to get started."

Sarda adds that with external consultant network availability, companies do not have to even invest in internal resources.

Pressing Needs and Future Outcomes

Lambert believes today the most pressing need for AI in the warehouse is optimization of forklift movement in managing time and movement within the warehouse. And the next big thing – AI for production lines.

"This technology could allow us to better build our customer's bill of material to prepare them better for production. In this way, we could offer an enhanced supply based on production needs and great just-in-time food production," says Lambert. "It could even be managed remotely by knowing which ingredients are in inventory to provide the right material at the right time and better manage the production line as a result."

In the future, Lambert believes the biggest impact of AI on supply chains will be the need to integrate AI in the work flow and to optimize transportation. "For instance, AI could be used to manage orders and plan transportation more closely, which could mean transportation to closer locations to reduce GHG emissions."



Lambert adds that AI should be a top priority for human resource departments. She reports it is a tremendous tool that can be used specifically in HR departments to develop organizational structures in departments, job descriptions and the like. "But we have to remain vigilant and careful with the potential sharing of confidential information," she warns. "We've already developed and implemented internal structures, policies and procedures to manage the use of publicly available AI such as Chat GPT."

Lambert says surveillance by the company's HR department is required, which has been accomplished internally within the company's Code of Ethics and Business Conduct. "There is also a risk for a company's confidential information with service providers, which has to be taken into account," says Lambert. "However, an AI tool remains an advantage to build agility within a company."

To Sarda, the most pressing need for AI is in enhancement of computer vision guiding systems such as OS&D prevention or productivity of automated guidance vehicles. And the next big thing in AI in temperature-controlled warehouses – driving ESG initiatives like carbon neutral warehouses.

"The biggest impact of AI on supply chains in the future is it will allow executives to model multiple scenarios to test strategies against real world challenges," Sarda says. "It will help organizations in many ways – from increasing forecast accuracy to inventory management, controlling costs in operations by increasing efficiencies to automating backend functions."

The supply chain is largely a set of independently managed links in the chain of custody from the farm to the table, Kareer suggests.

"Each link in the chain is trying to optimize its processes, independently leveraging the subset of data it has access to," Kareer says. "If you look at this from an optimization theory perspective, it becomes evident that there are limitations to finding the best solution when we look to solve the problem in silos."

Kareer notes AI is designed to reason over large data sets with myriad variables impacting effectiveness and efficiency outcomes. He believes if the industry was able to come together to share this data in order to understand the best way to get products moving most effectively through the cold chain, even greater benefits could be seen from AI.

By leveraging the power of AI, cold storage companies can stay ahead of the competition and provide better experiences for their customers. **②**

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n 2022, things were a little different in choosing the Controlled Environment Building Association's 2022 Built by the Best Award, which regularly honors the company which has constructed the year's most innovative and complex temperaturecontrolled facility.

This year, two winners were selected, with a winner chosen for a project under \$35 million and another in the category for a project over \$35 million.

The two winners were announced at the CEBA Conference last November, with Coldbox taking home the honor for the under \$35 million project and Griffco Design/Build winning for the over \$35 million project.

TWO BEST-IN-CLASS BUILDERS

Griffco Design/Build and Coldbox named winners of the 2022 CEBA Built by the Best Award.



The 150-foot, -10-degree ASRS, included 41,000 pallet positions. (Photo courtesy of Griffco Design/Build.)

GRIFFCO DESIGN/BUILD

For its winning entry, Griffco Design/Build was selected to complete Phase 1 of Americold Logistics' Gateway project in Atlanta, Georgia. It encompassed the demolition of a 440,000-square-foot existing cold storage building and the construction of a new, 200,000-square foot automated freezer facility.

"Griffco was fortunate to have been selected for a very similar ASRS project for Americold before Gateway became a topic of conversation," says Scott Griffin, CEO of Griffco. "We completed Americold's flagship ASRS freezer facility in Rochelle, Illinois, in 2018." Griffin says the project was very successful, which ultimately led to Griffco being the design/ build partner on Americold's Gateway Phase I project shortly thereafter.

Complicated Parameters

"Phase I of Americold's Gateway project was an extremely complex project because of the leading-edge material handling design of the facility, the construction process with two prime contractors working directly for Americold, the demolition of the existing cold storage building and challenges due to the COVID-19 pandemic." Griffin continues.

Parameters for the new Gateway facility included a 150-foot, -10-degree ASRS, -10 degree low-bay freezer; 35-degree truck and rail dock; and a two-story office building. The ASRS included 41,000 pallet positions, while the low-bay freezer included 6,000, totaling 47,000 pallet positions. The material handling systems were designed and integrated by Bastian Systems.

Demolition began in January 2020 and the project was complete in May 2021, although there were myriad challenges along the way.

"More than half of this project was done during the COVID-19 pandemic, which caused many issues, including staffing issues and supply chain challenges," Griffin says. "The Griffco team collaborated with Americold to implement strong COVID-19 safety protocols on-site and were very lucky that we never had to shut down the job."

The soil conditions of the site were not capable of supporting the weight of the 150-foot freezer, so the Griffco team made significant ground improvements, including a combination of geo piers and rigid inclusions.

Once the ground improvements were completed, the ASRS mat slab was installed and included a 12-inch stone load transfer platform, six-inch concrete mud-slab, six inches of 60 psi and 100 psi extruded floor insulation, and a 21-inch fiber reinforced concrete slab.

In addition to the ASRS Crane System, Swisslog provided a pallet shuttle pack and hold subsystem. Other technologies utilized included Körber/Riantics' fully automated gantry-style layer-picking system, which allows Americold to create custom pallets for customers without people having to work in the -10-degree freezer and a TGW goods-toperson case picking system.

According to Doug Karmel, Vice President of Global Construction and Development at Americold Logistics, "The subsystems were connected by an Electrified Floor Track System (EFTS) by Eisenmann, which efficiently moves product from one location to another and then to the dock for shipping."

The facility also includes palletization and depalletization areas, allowing the pallet transportation process to run smoothly.

Environmental Considerations

When it came to sustainable efforts, after demolishing most of the existing Gateway campus, Americold and Griffco recycled a significant amount of concrete slabs, walls, and paving into crushed concrete and stone that was used for the building pad and base for paving of Gateway Phase I.

From the freezers to the refrigeration system, the facility was designed with energy efficiency in mind. Americold's Gateway freezer facility also includes an ALTA Expert refrigeration system, which is entirely air-



The subsystems were connected by an Electrified Floor Track System by Eisenmann, which moves product between locations and then to the shipping dock. (Photo courtesy of Griffco Design/Build.)



Americold Logistics' Gateway project encompassed the demolition of a 440,000-square-foot existing cold storage building and the construction of a new, 200,000-square foot automated freezer facility. (Photo courtesy of Griffco Design/Build.)

cooled, using no water at all. Additionally, because the ASRS freezer is fully automated and does not require people inside, lights are rarely utilized, which also conserves energy.

Collaborative Efforts

It was a team effort all the way, which has been the cornerstone of Griffco Design/Build since its beginnings.

"Our core values as a company are competence, teamwork, integrity, commitment and partnership," Griffin says. "Our team, along with the Americold and Bastian teams, followed these principles every step of the way. We worked as a team internally, partnered with our client and remained committed to executing the project with our highquality standards despite the trials through COVID-19 and supply chain issues."

Griffin adds, "We delivered our most complex project in our 15 years of incorporation on time and within budget, even through a global pandemic. We are proud to have been selected as Americold's design/build partner on this project and look forward to partnering with them again in the future."

2022 Built by the Best Award-Winning Supplier Profiles

These are the companies integral to the success of the Griffco Design/Build winning project.

ALTA Refrigeration, Inc. www.cold4u.com

ALTA Refrigeration is a full service design/ build constructor of Industrial Refrigeration Systems. For over 30 years, ALTA's reputation for energy conservation, low maintenance costs, unique problem solving, and long term value is verified by the repeat business earned from numerous GCCA members and other major companies. In-house designed computer control energy savings systems includes over 27 years experience and hundreds of installations. Low temperature pipe and vessel insulation techniques installed by company trained insulators are recognized and preferred by repeat customers. Our reliable 24-hour service department and well-stocked parts departments are important to your business. Licensed in over 22 states, ALTA is positioned to help companies realize a larger return on investment by reducing operating costs. Take the time to verify our reference list and increase your bottom line.

American Thermal System, Inc.

www.ats-construction.com

American Thermal Systems, Inc. is a professional construction company specializing in insulated panels, cold storage doors, and design/build for cold storage facilities and food processing facilities. We were established in 1992 by the present Chairman and President Jimmy Rogers. Our management team brings over 45 years of experience to the industry and understands the unique challenges of building facilities to our customer's specifications and strict government regulations.

AutoMak Assembly, Inc.

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Working in partnership with manufacturers and contractors, AutoMak is dedicated to delivering handling and installation solutions for metal insulated panels. We offer proven vacuum lifting equipment to delivery installation efficiency with practical health and safety benefits. We provide full contract rental and sales service covering the whole of the United States and Canada with complete technical support as well as after sales support, servicing, testing and certification. Operating from a modern distribution centre and with a large dedicated rental fleet we are able to respond to customer requests and orders quickly. Our network of technical advisors provide full on the job product training and support services.

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- Open Drive Screw Compressors (Ammonia)
- Compact A/C Screw Compressors from 50 300 HP
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www.honeywell.com

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Johns Manville

www.jm.com

Johns Manville is a leading manufacturer and marketer of premium-quality insulation and commercial roofing, along with glass fibers and nonwovens for commercial, industrial and residential applications. Our history goes back to 1858, when the H.W. Johns Manufacturing Company began operations out of a tenement building in New York City.



Today, our products are used in a wide variety of industries including building products, aerospace, automotive and transportation, filtration, commercial interiors, waterproofing and wind energy. A proud member of the Berkshire Hathaway family of companies, we serve customers in more than 80 countries around the globe.

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www.metl-fab.com

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Puga Thermal Services

www.pugathermalservices.com

Puga Thermal Services has been recognized as a subcontractor that specializes in the installation of insulated metal panels. All of our work is done with our own experienced employees. Puga Thermal Services prides itself on the fact that we are committed to meeting the schedule and that our quality is superior in the Cold Storage Industry.

RHH Foam Systems Inc.

www.rhhfoamsystems.com

Manufacturers of VERSI-FOAM portable 2-component, low-pressure spray polyurethane foam systems. Units available in a variety of foam densities and sizes; both disposable and refillable containers. Also VERSI-TITE single component foam sealant and VERSI-BLOCK Fire Block and sealant in aerosol cans. All units compatible with low temperature environments and for a wide variety of insulating, sealing, caulking, and patching applications.

Rytec High Performance Doors

www.rytecdoors.com

Rytec is North America's leading manufacturer of high-performance doors for industrial, commercial, pharmaceutical and cold-storage environments. Whether rolling, folding, sliding or swinging doors, highperformance doors are our only business. Rytec corporate offices and manufacturing operations are headquartered in Jackson, Wisconsin, a suburb of Milwaukee. Customer technical support is provided through regional offices and a network of local dealers and installers throughout North America.

Shadco LLC

www.shadco.com

Shadco LLC manufactures Column Bearing Thermal Isolation Blocks for use in cold storage and food processing building construction. Our thermal blocks are constructed of high density, closed-cell polyurethane. With a variety of available densities and compression strengths, we manufacture our blocks to match the specific size, density, and anchor bolt requirements for every project.

Blocks are shipped to site, ready for installation. We offer short lead times, quick turn around for quotes and shop drawings, and work around your schedule to the best of our ability.

Shambaugh & Son, L.P.

www.shambaugh.com

Fire protection and detection systems for cooler/freezer facilities also mechanical, refrigeration, electrical and food process services.

Super Radiator Coils

www.superradiatorcoils.com

Established in 1928, Super Radiator Coils is a manufacturer of plate fin, spiral wrapped and tube bundle style condenser, evaporator and flooded style heat exchangers for ammonia, refrigerant and glycol/brine systems. Heat exchanger can be and are produced and certified to ASME, CRN and PED requirements. 3 manufacturing locations in the United States, Virginia, Minnesota, Arizona, enables Super Radiator Coils to support projects throughout North America.

TrueCore

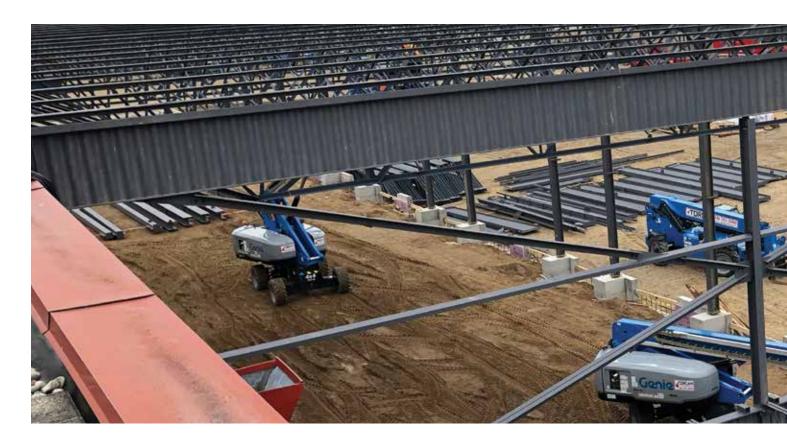
www.metlspan.com

Manufacturers of Factory Mutual Class I polyurethane foamed-in-place panels and polystyrene laminated insulated panels for the construction of cold storage, freezer, food processing and meat plants. Metl-Span also supplies panels for ambient buildings for commercial and industrial use. Find out why Metl-Span makes the most thermally efficient panels available today.

Twintec Kalman Floor

www.twintecusa.com

Twintec USA designs and builds steel fiber reinforced and engineered industrial jointfree floors. Our jointfree FREEPLAN engineered floors do not have saw cut joints, effectively minimizing if not completely suppressing maintenance and repair costs, while increasing the productivity in your cold storage. Being a highly specialized sub-contractor, Twintec USA offers world-class design build services to a variety of Clients in North America within the cold storage, distribution and heavy manufacturing industries. The track record of their parent company, the Twintec Group, is strong of 500 million square feet worth of engineered industrial slabs successfully designed and installed to date, allowing Twintec to be the world leader in their field. Twintec USA will design and install your FREEPLAN slabs on grade, on piles (suspended slabs) and on insulation (such as for cold storage slabs). Twintec USA also offers turn-key design build services regarding structural FREEPLAN mat slabs, such as for fully automated, rack supported distribution facilities. Twintec USA is dedicated to the highest level of quality and durability in their industry and offers a unique 5-year guarantee on all their FREEPLAN engineered slabs.



COLDBOX

When Confederation Freezers saw business boom, it acted quickly to hire Coldbox to expand and alter its current facility by 109,000 square feet in an effort to meet the rising demand of customers.

Coldbox's progressive design-build approach with Confederation Freezers was a partnership rather than a competitive bid scenario, which allowed the company to focus on the business's future growth needs collectively.

"Our initial meetings with Confederation Freezers were very collaborative," says Paul D'Agostino, Chief Operations Officer for Coldbox. "Before discussing the project needs, it was about understanding if there were parallels between our two organizations and if we fit well together to work on a complex addition."

The design process for the project started in January 2019, demolition commenced March 2019, construction began July 2019 and the facility was substantially performing by January 2021.

Challenges Abound

"With the project's challenges, the only way to stick to a timeline was through the team's collaborative efforts," D'Agostino says. "We utilized pull scheduling to best sequence our construction activities and create a culture of accountability on the project." The biggest challenge to overcome was creating the building addition without disrupting the operations of the existing facility, as Confederation Freezers needed to maintain full operation and service during the construction.

To deal with this, Coldbox took a progressive design-build approach to ensure that construction could happen even while Confederation Freezers' workers were working, so nothing was interrupted.

"There was no lost time due to construction activities," D'Agostino says.

Other challenges included dealing with multiple roofs and floor elevations resulting from previous additions to the facility. In addition, the facility was constructed with two significant neighboring constraints, a residential neighborhood to the east and a regional airport to the north.

Essential Provider

Plus, early in the construction phase, the COVID pandemic mandated a forced shutdown of all construction in Canada.

"By appealing to the provincial authorities, Coldbox was granted essential service status and deemed critical to the continuance of the country's cold chain," D'Agostino says. "This allowed construction to continue if strict protocols were upheld." The protocols included masks for all staff and trades, a minimum distancing of six feet between all workers, continuous cleaning of all surfaces, and installation of temporary washing stations.

During this time, many authorities having jurisdiction had reduced hours or completely closed, causing additional challenges. Despite all these hurdles, the project was delivered according to schedule.

"There are always challenges in any construction project," D'Agostino says. "Our team communicated the overall project goals to the broad team of sub-contractors and suppliers, ensuring all stakeholders were aligned and moving forward in the same direction."

Engine Room Complexities

Still, the main project complexity was the existing engine room, located in the middle of the footprint of the building addition, which was to be decommissioned and demolished.

"To keep the timelines within the client's needs, we had to construct the parameter of the facility around the existing engine room while building the new engine room and relocating the refrigeration distribution," D'Agostino says. "The existing facility was built over a series of additions that made the relocation of the refrigeration piping an



The vertical member of each SIN beam has an undulating profile allowing the structural integrity of the beam to be maintained using less steel. (Photo courtesy of Coldbox.)

additional challenge, as there were limited options for distribution."

Comprised of two cold rooms, the project included one space operating as a freezer/ cooler swing space, where the temperature could be set anywhere from 39°F to -13°F, depending on demand. This room was adjacent to a freezer continuously operating at 0°F. Depending on the need of the swing room, the freezer could be sharing a wall with a space that was sometimes colder than 0, and sometimes warmer. This complexity required the installation of a customized frost ribbon insulation detail on both sides of the swing space to ensure temperatures were maintained.

Innovation Abounds

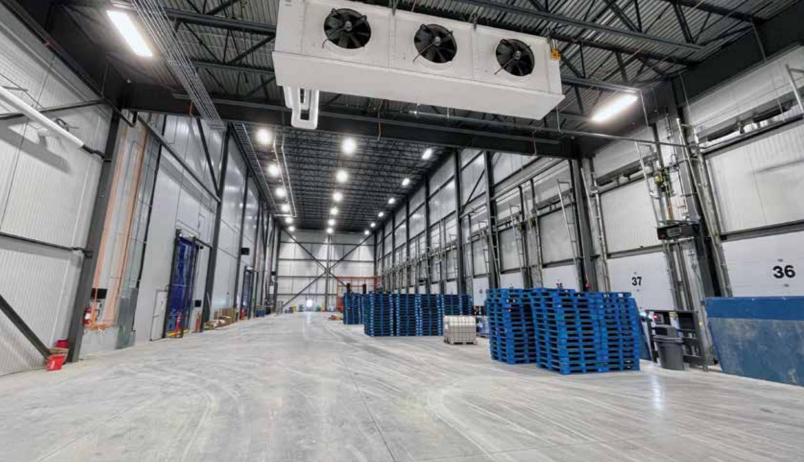
There were three main innovative aspects that Coldbox incorporated into the design, which were widely considered for the CEBA award.

First, a seamless fiber-reinforced concrete reduced the slab thickness by 66%, decreasing costs and installation time. This also made a better floor application for the facility's intended use, reducing the projected operating expense spend on material handling maintenance.

"Structural members were designed as corrugated," D'Agostino says. "We partnered with a local structure steel manufacturer with a patent on these structural members. By utilizing this design, we reduced the overall



The existing facility with the new facility construction underway. The engine room is isolated (in the middle of the photo) following demolition. (Photo courtesy of Coldbox.)



The cold dock floor system included insulation that increased the R-value, reducing the refrigeration load. (Photo courtesy of Coldbox.)

weight of the facility, which reduced costs. It also gave us better control over access to these materials on site and to coordinate directly with the manufacturer."

The third was the use of a semi-automated pallet runner system. Since Confederation Freezers manages a wide variety of client needs in terms of product size, this pallet runner system allowed Coldbox to create the density and flexibility that Confederation Freezers needed.

Savvy Sustainability Solutions

When it came to sustainability measures, an important desire of the client, Coldbox had savvy solutions.

"The main components of our sustainability efforts were centered around the ammonia refrigeration application and LED lighting throughout the facility," D'Agostino says. "The reduction of steel and concrete through the seamless fiber-reinforced floor and the corrugated SIN beams also contributed to our overall sustainability efforts via the reduction of materials used."

Thanks to the innovative design, Confederation Freezers now has a semiautomated pallet runner high-density racking system, making it the most profit-efficient addition possible.



In the background, progress is shown of an expedited zone that was needed while floors were still being established (in the foreground) and racking installed. (Photo courtesy of Coldbox.)

"The two biggest accomplishments in my perspective are the client is happy that the finished product supports their growth needs, which was their goal at the project's onset," D'Agostino says. "And our team was galvanized to overcome many challenges faced on the project, from expediting a portion of the facility for use to ongoing after-hours work for utility tie-ins and the unfamiliar challenges that the COVID pandemic posed throughout the project timeline." With the finished facility, Coldbox was able to increase Confederation Freezers' storage capacity by 50%, which helped the company meet up with the demand.

"Coldbox, Confederation Freezers and all of the CEBA members who worked on the project created a warehouse we can all be proud of," D'Agostino says. "We look forward to continuing to grow and nurture our relationships with new and existing partners in the cold storage industry."

2022 Built by the Best Award-Winning Supplier Profiles

These are the companies integral to the success of the Coldbox winning project.

Berner Air Curtains

www.berner.com

Headquartered in New Castle, Pa., Berner combines engineering, state of the art equipment and highly skilled workers to produce the most efficient, good looking, cost-effective, reliable air curtains on the market.

Berner Commercial, Architectural, and Industrial Air Curtains effectively prevent heating or air conditioning from escaping through open doors, providing sizeable energy savings and personal comfort, along with insect control. Architects, builders, and specifiers who demand the best build with Berner.

Danfoss

www.Danfoss.us

Whatever your industry, Danfoss can tailor an industrial solution that works best for you. We deliver customer-driven innovation based on an extensive industry knowledge, globally, through face-to-face local service. Danfoss Industrial Refrigeration is taking the lead in developing new technologies to offer simpler, better and more cost-effective solutions. Our solutions improve refrigeration processes, lower maintenance costs, and minimize energy consumption. We have introduced advanced networking solutions for monitoring and controlling processes, remotely if needed. And, we do everything we can to make it easy for you to procure and deploy the solutions you need. Research, development, manufacturing and marketing of valves, electronic controls for the industrial refrigeration market.

Emerson

www.emerson.com/cargo

Freshness is cumulative. Perishable distribution is a complex process with many handoff points. Any break in the cold chain can have an adverse impact on product quality. Emerson Cargo Solutions provides end to end monitoring services to help safeguard the world's food supply, reduce energy consumption, and protect the environment. Our solutions offer a one-stop-shop for cold chain monitoring, providing components you can leverage to monitor all perishable supply chain segments.

Evapco Inc.

www.evapco.com

Worldwide leader in the design and manufacture of industrial refrigeration systems & products. Offering a broad line of NH3 and CO2 air unit evaporators, critical process air systems, evaporative condensers, CO2 gas coolers, packaged recirculators, pressure vessels, Evapcold low charge NH3 systems and LMP packaged CO2 systems, as well as supervisory control systems & automation.

Plants located in Taneytown, MD; Greenup, IL; Bryan, TX; Madera, CA; Lake View, IA; Milano and Sondrio, Italy; Johannesburg, South Africa; Kingsgrove NSW, Australia; Shanghai and Beijing, China; Tongeren, Belgium; and Flex coil a/s Aabybro, Denmark.

Honeywell

www.honeywell.com

Honeywell is a world leader in the development, manufacture and supply of low-globalwarming-potential refrigerants and blowing agents that are sold worldwide under the Solstice* brand. Solstice refrigerants are designed to reduce the energy consumption of the refrigeration system through better efficiency while Solstice blowing agents are designed reduce the energy demand by improving the thermal insulation of the building envelope in the construction and cold chain markets.

Shadco LLC

www.shadco.com

Shadco LLC manufactures Column Bearing Thermal Isolation Blocks for use in cold storage and food processing building construction. Our thermal blocks are constructed of high density, closed-cell polyurethane. With a variety of available densities and compression strengths, we manufacture our blocks to match the specific size, density, and anchor bolt requirements for every project. Blocks are shipped to site, ready for installation.

We offer short lead times, quick turn around for quotes and shop drawings, and work around your schedule to the best of our ability.

Twintec Kalman Floor

www.twintecusa.com

Twintec USA designs and builds steel fiber reinforced and engineered industrial jointfree floors. Our jointfree FREEPLAN engineered floors do not have saw cut joints, effectively minimizing if not completely suppressing maintenance and repair costs, while increasing the productivity in your cold storage. Being a highly specialized sub-contractor, Twintec USA offers world-class design build services to a variety of Clients in North America within the cold storage, distribution and heavy manufacturing industries. The track record of their parent company, the Twintec Group, is strong of 500 million square feet worth of engineered industrial slabs successfully designed and installed to date, allowing Twintec to be the world leader in their field. Twintec USA will design and install your FREEPLAN slabs on grade, on piles (suspended slabs) and on insulation (such as for cold storage slabs). Twintec USA also offers turn-key design build services regarding structural FREEPLAN mat slabs, such as for fully automated, rack supported distribution facilities. Twintec USA is dedicated to the highest level of quality and durability in their industry and offers a unique 5-year guarantee on all their FREEPLAN engineered slabs.

Victaulic

www.victaulic.com

Since 1919, Victaulic has been the world's leading producer of grooved mechanical couplings and pipe-joining systems. Used in the most demanding markets, Victaulic innovative piping technologies put people to work faster while increasing safety, ensuring reliability and maximizing efficiency. The company has 13 major manufacturing facilities, 28 branches worldwide and over 3,600 employees who speak 43 languages across the globe. With more than 1900 patents, Victaulic solutions are at work in 140 countries across diverse business lines including oil and gas, chemical, mining, power generation, water and wastewater treatment, military and marine, as well as commercial building and fire protection. Follow us on LinkedIn, Facebook, Twitter, and YouTube. @

COLD CHAIN BUYERS GUIDE

GCCA & CEBA COLD CHAIN INNOVATION SHOWCASE & BUYERS GUIDE

The 2023 GCCA & CEBA Cold Chain Innovation Showcase & Buyers Guide includes only companies that are members of the Global Cold Chain Alliance (GCCA) and the Controlled Environment Building Association (CEBA), organizations that unite partners to be innovative leaders in the temperature-controlled warehousing, design-build, transportation and logistics industry. This directory is your source for any company supplying products and services to the temperature-controlled warehousing, logistics, transportation and construction industry.

To access listings that contain full company details for all GCCA and CEBA Members, please visit the online GCCA and CEBA Directory & Buyers Guide at gcca.org/directory/all.

To be featured in this buyers guide and the online directory, contact James Rogers at jrogers@gcca.org. For listings of temperature-controlled warehousing and logistics providers, please refer to the 2023 GCCA Refrigerated Warehouse and Logistics Showcase and Member Directory.

Air Curtains, Doors and Flexible/Curtain Walls

Albany - Dynaco High Performance Doors Kenosha, Wisconsin United States www.albanydoors.us

Askin Performance Panels Keysborough, Victoria Australia www.askin.net.au

ASSA ABLOY Entrance Systems Oakleigh, Victoria Australia www.assaabloy.com.au/

ASSA ABLOY Entrance Systems Tingalpa, Queensland Australia www.assaabloy.com.au/

Bluseal Limited Worcester, United Kingdom www.bluseal.co.uk/

Berner Air Curtains New Castle, Pennsylvania United States www.berner.com

Brucha Corp Denver, Colorado United States www.brucha.com

Cold Storage Buildings Midwest, Inc. Port Huron, Michigan United States www.csb-mw.com

Controlled Environment Systems LLC Mansfield, Massachusetts United States www.cesweb.com

CSI of Virginia, Inc. Glen Allen, Virginia United States www.csiinc.org

Efaflex Henderson, Auckland New Zealand www.efaflex.com

Eliason Corporation Portage, Michigan United States www.eliasoncorp.com

Elliott's Jacksonville, Florida United States www.elliottscoolers.com

Envisage Systems Mount Martha, Victoria Australia www.ebs-building.com/

Everidge Plymouth, Minnesota United States www.everidge.com Frank Door Company Newport, North Carolina United States www.frankdoor.com/

Global Insulated Doors Inc. Concord, Ontario Canada www.globalinsulateddoors.com

GPL Construction (UK) Ltd. Norfolk, United Kingdom www.gplconstruction.co.uk

Griffin Insulated Structures North Palm Beach, Florida United States www.griffinsulation.com

Gryphon Engineering Elgin, Western Cape South Africa www.gryphonengineering.com

HBCL Coldstores Ltd West Yorkshire, United Kingdom www.hbclcoldstoresltd.co.uk

Heritage Hygienic Environments Ltd Wirral, United Kingdom www.heritagehe.com

Hormann High Performance Doors Burgettstown, Pennsylvania United States www.hormann-flexon.com

IK Industries State Highway 30, Shahajapur,, Maharashtra India

www.ikindustries.in

Isocab NV Harelbeke-Bavikhove, Belgium www.isocab.be

IXL Co., Ltd Bangkok 10250, Thailand www.ixl.co.th

Jamison Door Company Hagerstown, Maryland United States www.jamisondoor.com

Jamison Door Latinoamerica S de RL de CV Mexico, Distrito Federal Mexico www.jamisondoor.com/worldwide-locations/ international-operations/mexico/

KPS Global Fort Worth, Texas United States www.kpsglobal.com

Mayekawa U.S.A., Inc. Katy, Texas United States www.mayekawausa.com Metaflex Doors Europe by Aalten, Netherlands www.metaflexdoors.com

Metaflex Doors India Pvt. Ltd. Noida, India www.metaflex.in

Metecno S.A. De C.V. Querétaro, Mexico www.metecnomexico.com

Midwest Materials Company Joplin, Missouri United States www.midwestmaterials.com

Miner Corporation Ocoee, Florida United States Www.minercorp.com

MT Cold Storage Solutions Ltd Leigh Sinton, Worcestershire United Kingdom www.mtcss.co.uk/

Open Concepts Newport Beach, California United States www.openconcepts.biz/

Panel Tech Omaha, Nebraska United States www.paneltechmidwest.com

Powered Aire Inc. Greenville, Pennsylvania United States www.poweredaire.com

R.A.Sneddon Ltd Scotland, United Kingdom www.rasneddon.com

Retracom Contracting Brown Plailns, Queensland Australia www.retracom.com.au

Rite-Hite Milwaukee, Wisconsin United States www.ritehite.com

Rite-Hite GmbH Volkmarsen, Hessen Germany www.ritehite.com/en/AM

Rytec High Performance Doors Jackson, Wisconsin United States www.rytecdoors.com

Senneca Holdings Cincinnati, Ohio United States www.senneca.com

Southern Thermal Solutions Inc. Mt. Crawford, Virginia United States www.sthermalsolutions.com/contact-us/

COLD CHAIN BUYERS GUIDE GCCA & CEBA COLD CHAIN INNOVATION SHOWCASE & BUYERS GUIDE

Stancold plc Bristol, Bristol United Kingdom www.stancold.co.uk

Tracy Cold Storage Construction, Inc. Point Lookout, New York United States www.tracycoldstorage.com

Unitherm, Inc. Charlotte, North Carolina United States www.unitherm1.com

Weiland Doors Norfolk, Nebraska United States www.weilanddoors.com

Ammonia/Chemical Supplies

Dow Chemical (Australia) Pty Ltd Melbourne, Victoria Australia www.dow.com

Dupont New Delhi, India www2.dupont.com/India_Country_Site/en_IN

NH3 R717 Services Johnston, Iowa United States www.nh3r717.com

Tanner Industries Inc. Southampton, Pennsylvania United States www.tannerind.com

Ammonia/Environmental Monitoring Equipment

A Perks Enterprises Durbanville, Western Cape South Africa www.andrewperks.co.za

Advanced Energy Control, Inc. Randolph, Wisconsin United States www.advancedenergycontrol.com

American Refrigeration LLC. Jacksonville, Florida, United States www.americanrefrigerationusa.com

Bridge Industrial Partners Rosemont, Illinois United States www.bridgedev.com

Lisa Line Life Science Technologies Pvt., Ltd. Mumbai, India www.lisalineasia.com

Logix Refrigeration Controls Kirkland, Washington United States www.logix-controls.com

NH3 R717 Services Johnston, Iowa United States www.nh3r717.com

Republic Refrigeration, Inc. Monroe, North Carolina United States www.republicrefrigeration.com

Tanner Industries Inc. Southampton, Pennsylvania United States www.tannerind.com

Architect

Bosz Arch, Inc. Sunset Beach, California United States www.boszarch.com CMC Design-Build, Inc. Quincy, Massachusetts United States www.cmcdesign-build.com

Epstein Chicago, Illinois United States www.epsteinglobal.com

ESI Group USA Hartland, Wisconsin United States www.esigroupusa.com

Internal Trade Engineering Design and Research Institute P.R. China Beijing China www.itedri.com.cn

RL COLD - Atlanta , Georgia Atlanta, Georgia United States www.rlcold.com

The Weitz Company Cedar Rapids, Iowa United States www.weitz.com/

Ware Malcomb Irvine, California United States www.waremalcomb.com

Audit and Inspection Provider

Danbee Investigations Midland Park, New Jersey United States www.danbeeinvestigations.com

Gamma Graphics Services (GGS) Colorado Springs, Colorado United States www.inspectpipe.com

Graycor Construction Company Oakbrook Terrace, Illinois United States www.graycor.com

Jan X-ray Services, Inc. Sugar Land, Texas United States www.janxndt.com/

Latus Ascot Vale, Victoria Australia www.latus.com.au

Mole Master Corporation Marietta, Ohio United States www.molemaster.com

NH3 R717 Services Johnston, Iowa United States www.nh3r717.com

Automation and Material Handling Equipment

Adapt-A-Lift Rentals & Sales (Vic) Springvale, Victoria Australia www.adapt-a-lift.com.au

Adaptec Solutions Rochester, New York United States www.adaptecsolutions.com

Advance Storage Automation Salt Lake City, Utah United States www.advancestorageautomation.com/

Advance Storage Products Huntington Beach, California United States www.advancestorage.com

Al Storage Solutions Prairie du Chien, Wisconsin United States www.BoxLogix.com ANCRA Systems Bingham Farms, Michigan United States www.ancra.nl/

AutoMak Assembly, Inc. Crown Point, Indiana United States www.cladboyusa.com

Bastian Solutions Carmel, Indiana United States www.bastiansolutions.com

Bradco Supply Company Kansas City, Missouri United States www.bradcosupplycompany.net/

Cascade Australia Pty Ltd. Rocklea, Queensland Australia www.cascorp.com

Crown Equipment Pty Ltd. (NSW) Smithfield, New South Wales Australia www.crown.com

Crown Equipment Pty Ltd. (QLD) Acacia Ridge, Queensland Australia www.crown.com

Crown Equipment Pty Ltd. (VIC) Mulgrave, Victoria Australia www.crown.com/en-au.html

DAMBACH Lagersysteme GmbH & Co. KG Bischweier, Baden-Wuerttemberg Germany www.dambach-lagersysteme.de/startseite. html

Dambach Lagersysteme USA, Inc. Charlotte, North Carolina United States www.dambach-lagersysteme.com

Dematic Pty Ltd. Belrose, New South Wales Australia www.dematic.com

Dexion USA Inc. Toronto, Ontario Canada www.dexionnorthamerica.com

Distribution X LLC Flowery Branch, Georgia United States www.distributionxusa.com

Frazier Industrial Company - Long Valley , New Jersey Long Valley, New Jersey United States www.frazier.com

Hyster-Yale Group Milperra, New South Wales Australia www.hyster-yale.com/Home/default.aspx

KEITH Manufacturing Co Madras, Oregon United States www.keithwalkingfloor.com

Korber Logistics Systems GmbH Bad Nauheim, Germany www.koerber-logistics.com

Korber Supply Chain Automation GmbH Leingarten, Germany www.koerber-supplychain.com

Korber Supply Chain DK A/S Arden, Denmark www.koerber-supplychain.com/

Korber Supply Chain, NA Minneapolis, Minnesota United States www.koerber-supplychain.com/



Why $NH_3 \& CO_2$?

EVAPCO is focused on the innovation and manufacturing of industrial refrigeration equipment and systems designed for use with the leading two natural refrigerants in the world – NH₃ and CO₂. Synthetic refrigerants dominated the commercial market for decades, but the passing of the American Innovation and Manufacturing Act (AIM Act) in early 2021 has solidified the phasedown of production and consumption of HFCs. Many states, and now the federal government (specifically the EPA), started this initiative, and are now executing it, because of the harmful effects HFCs have on the environment.

Today, and long into the future, natural refrigerants are the most climate-friendly solutions available in the industry. Ammonia (R-717) is the most environmentally friendly refrigerant available because it has a 0 rating for Ozone Depletion Potential (ODP) and Global Warming Potential (GWP). These environmental benefits, combined with the refrigerant's unmatched thermodynamic properties and energy efficiency have made it the most widely used low temperature refrigerant in the world.

Carbon Dioxide (R-744) is gaining more traction in the refrigeration industry as an alternative to synthetic refrigerants. With an ODP of 0 and a GWP of 1, CO_2 is a very eco-friendly refrigerant. Also, some end users may choose CO_2 over NH_3 because of the lower toxicity.



With the phasedown of HFCs in full swing, we expect NH_3 and CO_2 to become the go to refrigerant solutions for the foreseeable future, and **EVAPCO offers you both technologies!**

Evapcold® Ammonia Safety with Huge Energy Savings

Get the best of both worlds with Evapcold®, the factory assembled, low charge ammonia refrigeration system that sets the bar for both safety and sustainability.



Requiring just a fraction of the R-717 charge associated with traditional field-built systems, each Evapcold® unit is expertly crafted as a single-source, quick-to-install solution. The entire system offers simple plug-and-play installation and faster startups with significantly less on-site labor than its field-built alternatives.

Evapcold® LCR products include several state-of-the-art innovations in heat transfer technology, energy efficiency and microprocessor control for reliable low charge operation. EVAPCO has invested heavily, and continues to do so, in developing new models and configurations under the Evapcold® brand and the product model nomenclature "LCR" (Low Charge Refrigeration). This includes LCR-P Penthouse units, LCR-C Chillers and the new LCR-S Split system units.

EVAPCO LMP Complete CO₂ Systems

EVAPCO LMP Transcritical CO₂ Systems are a great choice for many applications, including Cold Storages. These systems offer an efficient, environmentally friendly and sustainable solution for your refrigeration needs. Combining the LMP Transcritical package with EVAPCO's certifiable high pressure CO₂ evaporators and industrial eco-AirTM gas cooler on your next project will ensure the highest system efficiencies plus single source responsibility from your trusted partner, EVAPCO.

The patented flagship Purity line of transcritical CO₂ systems is suitable for blast, freezer, medium and high temperature applications. EVAPCO LMP also supports secondary fluid applications with its Yellowstone pumping station package. All EVAPCO LMP systems are designed and manufactured with simple installation and rapid commissioning in mind.

Because you have a Natural Choice.





Visit us at evapco.com and evapcolmp.ca

Linde Material Handling Huntingwood, New South Wales Australia www.lindemh.com.au

Loscam Limited Box Hill, Victoria Australia www.loscam.com/

LTW Intralogistics GmbH Wolfurt Austria www.ltw.at

LTW Intralogistics, Inc. Emigsville, Pennsylvania United States www.LTWUSA.com

Mac Rak Inc. Lockport, Illinois United States www.macrak.com

Miner Corporation Ocoee, Florida United States www.minercorp.com

NTP Forklifts Huntingwood, New South Wales Australia www.ntpforklifts.com.au

Proton Controls LLC Syracuse, Utah United States www.protonctrl.com

Rack Builders Inc. Schaumburg, Illinois United States www.rackbuildersinc.com

Rite-Hite Milwaukee, Wisconsin United States www.ritehite.com

Safetech Tieman Solutions 'STS' Somerton, Victoria Australia www.tieman.com.au/

Slate River Systems, INC Irving, Texas United States www.srsi.com/

SRSI México San Pedro Garza García, Mexico www.srsi.com

SSI Schaefer Charlotte, North Carolina United States www.ssi-schaefer.us/

SSI Schaefer Systems SA (Pty) LTD Bryanston, Gauteng South Africa www.ssi-schaefer.com/en-za

Steel King Industries Inc. Stevens Point, Wisconsin United States www.steelking.com

Stoecklin Logistics, Inc. Roswell, Georgia United States www.stoecklin.com

Swisslog Newport News, Virginia United States www.swisslog.com

Swisslog Australia PTY Ltd. Sydney Olympic Park, New South Wales Australia www.swisslog.com/

TGW Systems, Inc. Grand Rapids, Michigan United States www.tgw-group.com

The Raymond Corporation Greene, New York United States www.raymondcorp.com

Toyota Material Handling Australia Moorebank, New South Wales Australia www.toyotamaterialhandling.com.au Twinlode Automation South Bend, Indiana United States www.twinlodeautomation.com/

Westfalia Technologies, Inc. York, Pennsylvania United States www.westfaliausa.com

Wood's Powr-Grip Co., Inc. Laurel, Montana United States www.wpg.com/

Batteries or Chargers

Battery Specialties Australia Sumner Park, Queensland Australia www.batteryspecialties.com.au/

Centura Yuasa Batteries (NSW) Villawood, New South Wales Australia www.cyb.com.au/home

Century Yuasa Batteries Carole Park, Queensland Australia www.cyb.com.au/

Century Yuasa Batteries (VIC) Mulgrave, Victoria Australia www.cyb.com.au

GridMarket New York, New York United States www.gridmarket.com/

Midac Australia Pty Ltd Smeaton Grange, New South Wales Australia www.midacbatteries.com

PowerSecure Durham, North Carolina United States www.powersecure.com

Clothing and Personal Protective Equipment

Avaska Knoxville, Tennessee United States www.avaska.com

Badger Australia Mt Gambier, South Australia Australia www.badgeraustralia.com.au

Fortdress Group GmbH Wilnsdorf, Nordrhein-Westfalen (North Rhine-Westphalia) Germany www.fortdress.de/

Hepworth Industrial Wear Pty Ltd. Ingleburn, New South Wales Australia www.hepworths.com.au

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All Weather Insulated Panels Vacaville, California United States www.awipanels.com

Alliance Industrial Refrigeration Services, Inc. Walnut, California United States www.therefrigerationalliance.com

ALTA Refrigeracion Guadalajara, Jalisco Mexico www.altarefrigeracion.com.mx/

Anis Ahmed & Brothers Karachi, Pakistan www.aabros.com.pk

ARI San Antonio, Texas United States

ARMATHERM Thermal Bridging Solutions Acushnet, Massachusetts United States www.armatherm.com

Askin Performance Panels Carole Park, Queensland Australia www.askin.net.au

Askin Performance Panels Eastern Creek, New South Wales Australia www.askin.net.au

Askin Performance Panels Keysborough, Victoria Australia www.askin.net.au

Brucha Corp Denver, Colorado United States www.brucha.com

Calfreeze Corp. Montebello, California United States www.calfreezecorp.com



COLD STORAGE GOES GREEN

As the refrigerated and frozen food industry embraces sustainability and LEED certification, Primus is keeping pace with in-house services devoted to designing and building environmentally responsible cold storage facilities.

Our in-house team is headed by a sustainability program manager who is focused solely on helping our customers deliver cold storage facilities that meet or exceed their sustainability goals. Primus is engaged from project kick off, working closely with all project stakeholders to determine the most efficient and cost effective way for their project to "go green."

This includes LEED certification. Primus guides the process and works with the United States Green Building Council to ensure our projects are successfully submitted.

There are many ways cold storage facilities can achieve LEED certification, including:

- Solar energy
- · Efficient refrigeration and HVAC systems
- Smart controls
- LED lighting with censors
- Efficient thermal envelope
- Reflective roofing
- · Local and recycled content
- Low volatile organic compounds (VOCs)

Because sustainability also means durability, many of our customers inherently want to include sustainable design and construction practices, often without knowing that's what they're doing. These options can also result in a healthier, well-thought-out workplace.

As the industry continues to bend toward sustainability, Primus will continue to add services that help our customers become strong stewards of the environment.

Our in-house team is ready to help you achieve your sustainability goals. Contact us today for more information. info@primusbuilders.com.

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Solar panels cover the roof of a recent project in Ridgeville, SC



LEED Gold Project in Forrest Park, GA



LEED Gold Project in Covington, TN

Cindu De Guatemala Ciudad de Guatemala, Guatemala Guatemala www.gt.cindu.com/gt_es

Cold Storage Buildings Midwest, Inc. Port Huron, Michigan United States www.csb-mw.com

Controlled Environment Systems LLC Mansfield, Massachusetts United States

CSI of Virginia, Inc. Glen Allen, Virginia United States www.csiinc.org

CT-Technologies ApS Vedbaek, Denmark www.ct-technologies.dk/

CT-Technologies, Bosnia and Herzegovina Sarajevo, Bosnia www.ct-technologies.dk

Elliott's Jacksonville, Florida United States www.elliottscoolers.com

EMCO Panel System Ltd Co. Kildare, Ireland www.emco.ie

Eurobond Laminates Ltd. Cardiff, United Kingdom www.eurobond.co.uk

Everidge Plymouth, Minnesota United States www.everidge.com

Falk Panel Walker, Michigan United States www.falkpanel.com/

GPL Construction (UK) Ltd. Norfolk, United Kingdom www.gplconstruction.co.uk

Green Span Profiles Waller, Texas United States www.greenspanprofiles.com/

Griffin Insulated Structures North Palm Beach, Florida United States www.griffinsulation.com

HBCL Coldstores Ltd West Yorkshire, United Kingdom www.hbclcoldstoresltd.co.uk

Hemsec Panel Technologies Merseyside, United Kingdom www.hemsec.com

Heritage Hygienic Environments Ltd Wirral, United Kingdom www.heritagehe.com

HIL Installations Ltd Merseyside, United Kingdom www.hil-installations.com

HLM India Pvt Ltd Chakan, Pune India

Holden Installations Ltd. Cork, Ireland www.holden.ie

ISD Solutions Gloucester Gloucestershire, United Kingdom www.isd-solutions.co.uk

Isocab by Kingspan Beveren-Leie, West-Vlaanderen Belgium www.isocab.com

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LTI Contracting Phoenix, Arizona United States www.lticontracting.com

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Meadowwood Enterprises, LLC Canton, Georgia United States www.me-thermal.com

Mecalfab Ltd. Port of Spain, Trinidad and Tobago www.mecalfab.com

Metecno Chile Santiago, Chile www.metecno.cl

Metecno Colombia Bogota, Colombia www.metecnocolombia.com

Metl-Fab, Inc. Omaha, Nebraska United States www.metl-fab.com

Metl-Span Lewisville, Texas United States www.metlspan.com

Midwest Materials Company Joplin, Missouri United States www.midwestmaterials.com

Norbec Architectural Inc. Boucherville, Quebec Canada www.norbec.com/

Open Concepts Newport Beach, California United States www.openconcepts.biz/ Panel Tech Omaha, Nebraska United States www.paneltechmidwest.com

Perley-Halladay Associates Inc. West Chester, Pennsylvania United States www.perleyhalladay.com

Permatherm Monticello, Georgia United States www.permatherm.net

Primus Woodstock, Georgia United States www.primusbuilders.com

R.A.Sneddon Ltd Scotland, United Kingdom www.rasneddon.com

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RINAC India Limited Bangalore, India www.rinac.com

S & S Refrigeration Company Jersey City, New Jersey United States www.ssrefrig.com

Sealand Building Group Inc. Bedford, Nova Scotia Canada www.sealandgroup.ca

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Southern Thermal Solutions Inc. Mt. Crawford, Virginia United States sthermalsolutions.com/contact-us/

Stancold plc Bristol, Bristol United Kingdom www.stancold.co.uk

STEEL WORX SOLUTIONS LLC Groveland, Florida United States www.steelworxusa.com/

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Zeppelin Mobile Systems India Ltd Noida-201305, U.P. India www.zeppelinindia.com

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CBRE, Inc. Los Angeles, California United States www.cbre.com/ffg

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Ray White Commercial (QLD) Brisbane, Queensland Australia www.raywhite.com

Ryan Companies US, Inc. Minneapolis, Minnesota United States www.ryancompanies.com

Saxum Real Estate Austin, Texas United States www.saxumre.com

Scout Cold Logistics Miami, Florida United States www.scoutcold.com

Seven Lakes Partners Tuxedo Park, New York United States www.sevenlakespartners.com

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Transwestern Chicago, Illinois United States www.Transwestern.com

UBS Realty Investors LLC Hartford, Connecticut United States www.ubs.com

Yukon Ventures Austin, Texas United States www.Yukoncoldstorage.com

International Development

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Lixia Capsia Gestionis LLC Washington, District of Columbia United States www.lixcap.com

Richard Dowdell Company Fleming Island, Florida United States

Scannell Properties Kansas City, Missouri United States www.scannellproperties.com

Labeling

Beyond Print Inc. LaVista, Nebraska United States www.custompackagingandlabels.com

Legal or Insurance Services

AB Phillips Moorabbin, Victoria Australia www.abphillips.com.au

Delcossa Corretora De Seguros Ltda. Sao Paulo, São Paulo Brazil www.delcossa.com.br/

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Latus Ascot Vale, Victoria Australia www.latus.com.au

LHL Attorneys Illovo, Sandton South Africa www.lhllaw.co.za/

Lockton Companies, LLC Kansas City, Missouri United States www.lockton.com

MetLife Food & Agribusiness Finance Overland Park, Kansas United States www.metlife.com/ag

Scopelitis, Garvin, Light, Hanson & Feary Indianapolis, Indiana United States www.scopelitis.com

Lighting

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American Energy Partners, Inc. Monterey, California United States www.americanenergy.partners

Couch Perry & Wilkes LLP Birmingham, United Kingdom www.cpwp.com/

Gould Group Westerville, Ohio United States www.gouldgrp.com

Holden Installations Ltd. Cork, Ireland www.holden.ie

KPS Global Fort Worth, Texas United States www.kpsglobal.com

MT Cold Storage Solutions Ltd Leigh Sinton, Worcestershire United Kingdom www.mtcss.co.uk/ PowerSecure Durham, North Carolina United States www.powersecure.com

Maintenance or Repair Services

Ahern Fire Protection a division of J. F. Ahern Co. Fond du Lac, Wisconsin United States www.ifahern.com/

ALTA Refrigeration, Inc. Peachtree City, Georgia United States www.cold4u.com

Anis Ahmed & Brothers Karachi, Pakistan www.aabros.com.pk

Applied Process Cooling Corporation (APCCO) Modesto, California United States www.apcco.net

Clauger North America Jacksonville, Florida United States www.clauger.com

Cold Clad Ltd. Gloucestershire, United Kingdom www.coldclad.com

Controlled Environments Construction Inc. Tustin, California United States www.controlledenvironments.com

Darren Edwards Construction & Maintenance LTD (DECM UK) Buckden, St Neots, Cambridgeshire United Kingdom www.decmuk.com

GPL Construction (UK) Ltd. Norfolk, United Kingdom www.gplconstruction.co.uk

H.A. Davie Ltd. Tyne & Wear, United Kingdom www.hadavie.co.uk

Hansen-Rice, Inc. Nampa, Idaho United States www.hansen-rice.com

HIL Installations Ltd Merseyside, United Kingdom www.hil-installations.com

Holden Installations Ltd. Cork, Ireland www.holden.ie

ISD Solutions Gloucester Gloucestershire, United Kingdom www.isd-solutions.co.uk

KPS Global Fort Worth, Texas United States www.kpsglobal.com

M&M Carnot Annapolis, Maryland United States www.mmrefrigeration.com

Mac Rak Inc. Lockport, Illinois United States www.macrak.com

Miner Corporation Ocoee, Florida United States www.minercorp.com

Mole Master Corporation Marietta, Ohio United States www.molemaster.com

Moy Industrial Electric Inc. Downey, California United States











ARE YOU PLANNING TO BUILD OR MAKE CAPITAL INVESTMENTS OR UPGRADES IN YOUR FACILITIES?

- Do you plan to build a new facility or renovate an existing one?
- Do you plan on making any capital investments in refrigeration, material handling, doors or other equipment related to a construction project?
- Do you plan on fixing any floor, walls, roofs, update your docks or make improvements to anything else inside the building?

If you answered yes, you wont want to miss the Controlled-Environment Building Conference & Expo occurring November 11-14, 2023 Palm Springs, CA.

FACILITY OWNERS AND EXECUTIVES ANNUALLY SEND THE FOLLOWING EMPLOYEES TO LEARN AND CONNECT WITH THE WORLDS TOP PROVIDERS:

- Heads of construction and development leaders that oversee/liaise with general contractors, refrigeration contractors and developers
- Chief Engineers
- Facility Engineers & Maintenance
- Leaders involved in the procurement or planning for capital investment and equipment related to construction projects

PROGRAM AND EDUCATION HIGHLIGHTS

- Keynote by Futurist, Trends, and Innovation Expert Jim Carroll
- North American Industrial Real Estate Update
- Insights into Sustainability and LEED Building and Design
- Perspectives on the Speculative Cold Chain Market
- Key Legal and Finance Protection Insights and Best Practices for Your Business
- Interactive CEBA Construction Café Table Discussions
- Built by the Best Award Finalist Presentations
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Republic Refrigeration, Inc. Monroe, North Carolina United States www.republicrefrigeration.com

Startec Refrigeration Services Calgary, Alberta Canada www.startec.ca

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TRICO Companies, LLC Burlington, Washington United States www.tricocompanies.com/

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Alliance Industrial Refrigeration Services, Inc.

Walnut, California United States www.therefrigerationalliance.com

Apex Visakhapatnam, India

CipherLab Australia Pty Ltd Kings Park, Sydney, New South Wales Australia www.cipherlab.com.au

Clayco Chicago, Illinois United States www.claycorp.com

CMC Design-Build, Inc. Quincy, Massachusetts United States www.cmcdesign-build.com

CSI of Virginia, Inc. Glen Allen, Virginia United States www.csiinc.org

Danbee Investigations Midland Park, New Jersey United States www.danbeeinvestigations.com

EVAC North America, Inc. Cherry Valley, Illinois United States www.EVAC.com

Gamma Graphics Services (GGS) Colorado Springs, Colorado United States www.inspectpipe.com

GMH Infrastructure Private Limited New Delhi, Delhi India www.gmhdomain.com

GridMarket

New York, New York United States www.gridmarket.com/

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Polyguard Products Ennis, Texas United States www.polyguardproducts.com

Rabobank - Utrecht , Zuid-Holland Utrecht, Zuid-Holland Netherlands www.far.rabobank.com

Republic Refrigeration, Inc. Monroe, North Carolina United States www.republicrefrigeration.com

Singhal Industries Pvt. Ltd. Gandhinagar, Gujarat India www.singhalgroup.in

Tanner Industries Inc. Southampton, Pennsylvania United States www.tannerind.com

Temptime Corporation a Zebra Technologies Company Morris Plains, New Jersey United States www.zebra.com

TRICO Companies, LLC Burlington, Washington United States www.tricocompanies.com/

UPS Freight Richmond, Virginia United States www.ups.com/ship

Viking Cold Solutions, Inc Houston, Texas United States www.vikingcold.com

Pallets

Automha Americas Automation Corp Oakville, Ontario Canada www.automha.com/

CHEP Australia North Ryde, New South Wales Australia www.chep.com

CHEP Australia (QLD) Hamilton Central, Queensland Australia www.chep.com

CHEP Australia (SA) Adelaide, South Australia Australia www.chep.com/au

CHEP Australia (VIC) Dandenong South, Victoria Australia www.chep.com/au

CHEP Australia (WA) Canning Vale, Western Australia Australia www.chep.com/au

Phase Change Solutions Asheboro, North Carolina United States www.phasechange.com

SSI Schaefer Charlotte, North Carolina United States www.ssi-schaefer.us/ Steel King Industries Inc. Stevens Point, Wisconsin United States www.steelking.com

United Material Handling Moreno Valley, California United States www.unitedmh.com

Racking

Adaptec Solutions Rochester, New York United States www.adaptecsolutions.com

Advance Storage Products Huntington Beach, California United States www.advancestorage.com

Automha Americas Automation Corp Oakville, Ontario Canada www.automha.com/

Barpro Storage SA (Pty) Ltd. Cape Town, Western Cape South Africa www.barprostorage.co.za

Bertolini Sistemas De Armazenagem Bairro Vila Nova, Rio Grande do Sul Brazil www.bertoliniarmazenagem.com.br/

Better Storage Systems Darra, Queensland Australia www.betterstorage.com.au

Dexion USA Inc. Toronto, Ontario Canada www.dexionnorthamerica.com

Distribution X LLC Flowery Branch, Georgia United States www.distributionxusa.com

FLEXSPACE Charleston, South Carolina United States www.flexspace360.com

Frazier Industrial Company - Long Valley , New Jersey Long Valley, New Jersey United States www.frazier.com

KPS Global Fort Worth, Texas United States www.kpsglobal.com

Mac Rak Inc. Lockport, Illinois United States www.macrak.com

Rack Builders Inc. Schaumburg, Illinois United States www.rackbuildersinc.com

SRSI México San Pedro Garza García, Mexico www.srsi.com

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Steel King Industries Inc. Stevens Point, Wisconsin United States www.steelking.com

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ADVOCACY INDUSTRY PROMOTION RESEARCH INTERNATIONAL

GCCA STANDS WITH YOU. THE TIME TO ACT IS NOW.

Never before has our industry faced such uncertainty and vulnerability from America's policy makers, both in the White House and in both chambers of Congress. The Administration and Congress represent challenges and opportunities that we will need to face as an industry, together.

The Administration and Congress are considering a wide range of policies that could impact the cold chain in 2023. Key issues:



FARM BILL

- Congress is working to reauthorize the Farm Bill in 2023.
- GCCA will be actively engaging with Congress to advance cold chain industry initiatives and priorities.

CLIMATE CHANGE

- Pursuing aggressive policies to address climate change, through both executive action and legislation
- Implementation of the AIM Act to phase down HFCs

TAXES

- Increasing the corporate tax rate, phasing out deductions for pass-through entities
- Raising the top marginal income-tax rate



LABOR

- Strengthening worker organizing, collective bargaining and unions through executive action and legislation such as the PRO Act
- NLRB advancing labor initiatives, like 'micro-unit'
- organizations and joint employer policies

BURDENSOME REGULATIONS

- Revising EPA's Risk Management Program (RMP) regulation and making additional requirements
- Changes to OSHA's Process Safety Management regulation
- Implementation of FDA's Food Traceability Rule

THERE IS SOMETHING YOU CAN DO.

To learn more about how you can contribute contact Lowell Randel (Irandel@gcca.org) or visit advocacy.gcca.org. Visit ADVOCACY.GCCA.ORG for more information.



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Grupo Frio Integral Santo Domingo, Dominican Republic www.gfriointegral.com

HLM India Pvt Ltd Chakan, Pune India

Thermo King do Brasil Ltda. Barueri, São Paulo Brazil www.thermoking.com.br/latin-america/br/ pt.html

Volvo Truck & Bus Chullora, New South Wales Australia www.volvotrucks.com.au/en-au/

Reefer Units

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Grupo Frio Integral Santo Domingo, Dominican Republic www.gfriointegral.com

Maritima Dominicana S.A.S Santo Domingo, Santo Domingo, Dominican Republic

Thermo King Bloomington, Minnesota, United States www.thermoking.com

Refrigeration Engineering Services and Support

American Refrigeration LLC Jacksonville, Florida, United States www.americanrefrigerationusa.com

Classic Refrigeration SoCal Fullerton, California United States www.classicsocal.com/

Delta Refrigeration Anaheim, California, United States' www.delta-refrigeration.com

EverCase Elk Grove Village, Illinois, United States

MRBraz & Associates, PLLC Azle, Texas United States www.mrbraz.com/

Nexus Refrigeration Norfolk, Virginia, United States www.nexusrefrigeration.com

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Providence Engineering Lancaster, Pennsylvania, United States www.proveng.com

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Sangha Refrigeration Punjab, India

Startec Refrigeration Services, Ltd. Calgary, Alberta, Canada www.startec.ca

Refrigeration Equipment and Machinery

Advanced Energy Control, Inc. Randolph, Wisconsin United States www.advancedenergycontrol.com

AIR Consulting Global Ltd Northern Ireland, United Kingdom www.airconsulting.eu.com/

Aislamientos Constructivos, S.A. de C.V. Monterrey, Nuevo Leon Mexico www.grupoaislacon.com.mx

ALTA Refrigeration, Inc. Peachtree City, Georgia United States www.cold4u.com

American Refrigeration LLC Jacksonville, Florida, United States www.americanrefrigerationusa.com

Anis Ahmed & Brothers Karachi, Pakistan www.aabros.com.pk

ARI San Antonio, Texas United States www.ari.tech

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Bitzer Cotia, São Paulo Brazil

BITZER Kuhlmaschinenbau GmbH Sindelfingen, Germany www.bitzer.de/

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Carrier Air-Conditioning and Refrigeration Ltd. Bangalore, Karnataka India www.carrier.com

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www.cryologistics.ca/

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GEA Refrigeration Components Australia Carrum Downs, Victoria Australia www.gea.com/australia

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InterCool USA LLC Carrollton, Texas United States www.intercoolusa.com

Klinge Corporation York, Pennsylvania United States www.klingecorp.com

Logix Refrigeration Controls Kirkland, Washington United States www.logix-controls.com

LUVATA New Delhi, India www.luvata.com

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Mayekawa U.S.A., Inc. Katy, Texas United States www.mayekawausa.com

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MT Cold Storage Solutions Ltd Leigh Sinton, Worcestershire United Kingdom www.mtcss.co.uk/

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Scantec Refrigeration Technologies Pty Ltd Murarrie, Brisbane, Queensland Australia www.scantec.com.au

Sistemas de Refrigeracion Totales SA de CV Estado de Mexico, México Mexico www.srtmexico.com.mx

Super Radiator Coils Richmond, Virginia United States www.superradiatorcoils.com

TERMOPROL ZANOTTI DO BRASIL LTDA Porto Alegre, Rio Grande do Sul Brazil www.termoprol.com.br/

Therm Tech Refrigeracao Industrial Caxias do Sul Estado, Rio Grande do Sul Brazil www.thermtech.com.br/

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Tri Tech Refrigeration Australia Pty Wetherill Park, New South Wales Australia www.trichaustralia.com.au

Vilter Manufacturing LLC Cudahy, Wisconsin United States

Voltas Limited Mumbai, India www.voltas.com

Roofing and Roofing Products

All Weather Insulated Panels Vacaville, California United States www.awipanels.com

Askin Performance Panels Keysborough, Victoria Australia www.askin.net.au

DuPont Performance Building Solutions Spring, Texas United States www.dupont.com/building.html

Falk Panel Walker, Michigan United States www.falkpanel.com/

GAF Dallas, Texas United States www.gaf.com

Global Roofing Group Phoenix, Arizona, United States www.globalroofinggroup.com

Green Span Profiles Waller, Texas United States www.greenspanprofiles.com/

Group4 Reps Cedar Falls, Iowa United States www.group-4.net

Heritage Hygienic Environments Ltd Wirral, United Kingdom www.heritagehe.com

HIL Installations Ltd Merseyside, United Kingdom www.hil-installations.com

Isocab NV Harelbeke-Bavikhove, Belgium www.isocab.be

Johns Manville Denver, Colorado United States www.jm.com/

Midland Engineering Co. South Bend, Indiana United States www.midlandengineering.com

PowerShingle Oakland, California United States www.powershingle.com

R&B Roofing Rockwall, Texas United States www.rbroof.com

Royalty Roofing Seymour, Indiana United States www.royaltyroofing.com

Single Ply Systems Inc Bloomington, Minnesota, United States www.singleplysystems.com Sun Commercial Roofs Dallas, Texas United States

www.suncoroofs.com

Safety Training and Consulting (PSM, HazCom, Lockout)

Alliance Industrial Refrigeration Services, Inc. Walnut, California United States www.therefrigerationalliance.com

Beca Pty Ltd. - Shanghai , Shanghai Shanghai, Shanghai China www.beca.com/

Clayco Chicago, Illinois United States www.claycorp.com

Solar/Alternative Energy Solutions

ALTA Refrigeracion Guadalajara, Jalisco Mexico www.altarefrigeracion.com.mx/

American Energy Partners, Inc. Monterey, California United States www.americanenergy.partners

Elgin HDB Refrigeração Ltda. São José dos Campos, São Paulo Brazil www.elgin.com.br

EOS Distribution Timonium, Maryland United States www.eosenergysavings.com

esaSolar Maitland, Florida United States www.esa-solar.com/

Gould Group Westerville, Ohio United States www.gouldgrp.com

Great River Energy Maple Grove, Minnesota United States www.greatriverenergy.com/

GridMarket New York, New York United States www.gridmarket.com/

ndustrial Raleigh, North Carolina United States www.ndustrial.io

PED Consultants Ltd Armagh, United Kingdom www.pedconsult.com/

PowerSecure Durham, North Carolina United States www.powersecure.com

PowerShingle Oakland, California United States www.powershingle.com

Stanker & Galetto Inc. Vineland, New Jersey United States www.stankergaletto.com

SunPeak Madison, Wisconsin United States www.sunpeakpower.com

Testo Do Brazil Campinas, São Paulo Brazil www.testo.com/pt-BR/

Viking Cold Solutions, Inc Houston, Texas United States www.vikingcold.com

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Delta Refrigeration Anaheim, California, United States www.delta-refrigeration.com

DuPont Performance Building Solutions Spring, Texas United States www.dupont.com/building.html

FK Construction Limited Altrincham, United Kingdom www.fkgroup.co.uk

FREEZ Construction Little Elm, Texas United States www.freezconstruction.com

Honeywell - Madrid Madrid, Spain www.honeywell.com/

Metecno S.A. De C.V. Querétaro, Mexico www.metecnomexico.com

North Scientific division of North Mechanical Services, Inc. Bloomington, Indiana United States www.northscientificservice.com

Puga Thermal Services Marietta, Georgia United States www.pugathermalservices.com/

Rabobank - Utrecht, Zuid-Holland Utrecht, Zuid-Holland Netherlands www.far.rabobank.com

Republic Refrigeration, Inc. Monroe, North Carolina United States www.republicrefrigeration.com

Stancold plc Bristol, Bristol United Kingdom www.stancold.co.uk

TRICO Companies, LLC Burlington, Washington United States www.tricocompanies.com/

Vapor Armour Clackamas, Oregon United States www.vaporarmour.com

Tracking and Monitoring Equipment or Services

CryoLogistics Refrigeration Technologies Ltd. Victoria, British Columbia Canada www.cryologistics.ca/

Honeywell Deutschland GmbH Offenbach/Main, Germany www.honeywell.com/de

Systems, LLC Germantown, Wisconsin United States www.docksystemsinc.com/

Temptime Corporation a Zebra Technologies Company Morris Plains, New Jersey United States www.zebra.com

Tive Bondi Junction, New South Wales Australia www.tive.co

Valves or Refrigeration Equipment Parts

Adept Consulting Engineers Greensborough, Victoria Australia www.adeptcsce.com/

Alliance Industrial Refrigeration Services, Inc. Walnut, California United States www.therefrigerationalliance.com

American Refrigeration LLC. Jacksonville, Florida, United States www.americanrefrigerationusa.com

Applied Process Cooling Corporation (APCCO) Modesto, California United States www.apcco.net

ARMATHERM Thermal Bridging Solutions Acushnet, Massachusetts United States www.armatherm.com

BITZER U.S., Inc. Flowery Branch, Georgia United States www.bitzerus.com

Bonar Engineering & Construction Company Jacksonville, Florida United States www.bonareng.com

Bridge Industrial Partners Rosemont, Illinois United States www.bridgedev.com

Chemours Wilmington, Delaware United States www.opteon.com/en

Climate Changers Technology Solutions Pvt Ltd Bangalore, Karnataka India www.climatechangersindia.com

Emerson Electric Brantford, Ontario Canada www.emerson.com/en-us

Epstein Chicago, Illinois United States www.epsteinglobal.com

Evapco Inc. Westminster, Maryland United States www.evapco.com

Evapco, Inc. Monterrey, Nuevo Leon Mexico www.evapco.com

Guntner do Brasil Caxias do Sul, Rio Grande do Sul Brazil www.guntner.com.br

Guntner of Mexico Álvaro Obregón, CP. Cd. De, México Mexico www.guentner.com.mx

Heatcraft Refrigeration Products Columbus, Georgia United States www.kysorwarren.com

Honeywell - Madrid Madrid, Spain www.honeywell.com/

Innovative Refrigeration Systems, Inc. Lyndhurst, Virginia United States www.R717.net

International Coil Limited New Delhi, India www.icl-tech.com

M/s SVARN TELECOM LTD Faridabad, Haryana India www.svarn.com M&M Carnot Annapolis, Maryland United States www.mmrefrigeration.com

Mayekawa Brasil Arujá, São Paulo Brazil mayekawa.com.br/

Mayekawa Colombia S.A.S. Bogota, Colombia www.mayekawa.com.co

Mayekawa U.S.A., Inc. Katy, Texas United States www.mayekawausa.com

Mollenberg-Betz, Inc. Buffalo, New York United States www.mollenbergbetz.com

NH3 R717 Services Johnston, Iowa United States www.nh3r717.com

Phase Change Solutions Asheboro, North Carolina United States www.phasechange.com

Preston Refrigeration Kansas City, Missouri United States www.prestonrefrigeration.com/

Primus Woodstock, Georgia United States www.primusbuilders.com

Rabobank - Utrecht , Zuid-Holland Utrecht, Zuid-Holland Netherlands www.far.rabobank.com

RC&E, Inc. Fort Worth, Texas United States www.rce-nh3.com

Republic Refrigeration, Inc. Monroe, North Carolina United States www.republicrefrigeration.com

Saarthak Refrigeration Delhi, India www.coltfreeze.com

Sant Industrial Control Pvt. Ltd New Delhi, India www.sant.co.in

Scantec Refrigeration Technologies Pty Ltd Murarrie, Brisbane, Queensland Australia www.scantec.com.au

Thermal Technologies, Inc. Blythewood, South Carolina United States www.thermaltechnologies.com

Victaulic Easton, Pennsylvania United States www.victaulic.com

Viking Cold Solutions, Inc Houston, Texas United States www.vikingcold.com

WMS and TMS Products and Support

Adaptec Solutions Rochester, New York United States www.adaptecsolutions.com

Assist Assessoria De Sistemas Campinas, São Paulo Brazil www.assistsoftware.com.br

Bayer Material Science Pvt. Ltd. Greater Noida, India www.bay-systems.com

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TGW Systems, Inc. Grand Rapids, Michigan United States www.tgw-group.com

United Material Handling Moreno Valley, California United States www.unitedmh.com

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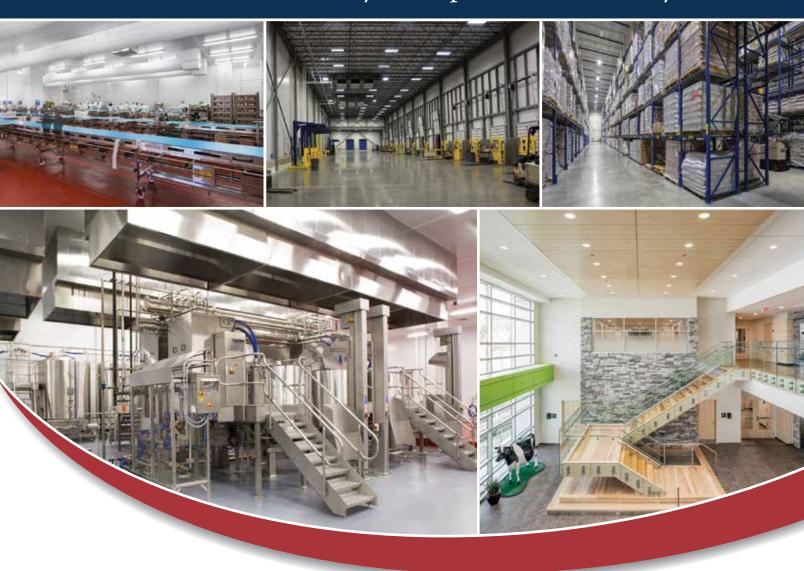
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