



# **BUILDING AND CONSTRUCTION**

## BUILDING ELECTRIFICATION SOLUTIONS

**ELIMINATE ON SITE SCOPE 1 EMISSIONS**

**ELIMINATE SCOPE 2 EMISSIONS WHEN COUPLED WITH RENEWABLE POWER**

**VIRTUALLY 100% EFFICIENT CONVERSION OF ENERGY TO USABLE HEAT**

**REMOVES THE COMPLEXITY AND COST OF COMBUSTION SOURCES**

**DRASTICALLY REDUCES MAINTENANCE COSTS AND DOWNTIME**

## HELPING YOU MEET YOUR ZERO NET GOALS

The building and construction industry is responsible for 39% of all energy related carbon emissions worldwide. The transition towards net zero carbon standards is happening rapidly and cutting carbon emissions from heating is a critical part of achieving net zero. Electrification is one of the main ways to help buildings meet their net zero goals. At Chromalox, we engineer advanced thermal solutions that empower our customer's transition towards sustainability and net zero.

### PIONEERS IN ELECTRIC HEAT & CONTROL

We invented electric heating technology with the introduction of the first metal-sheathed heating element 100 years ago. Since that first innovation, we've created an industry and evolved from technologies of just a few kilowatts to those that meet the highly specialized requirements of virtually any construction application.

It is our mission to find elegant solutions to the most demanding and complex challenges. These solutions help our customers improve their operating processes and enhance productivity. This mission, and our investment in research and development in new technologies, will shape the future of industrial process heating as we continue to pioneer a new century of innovation.

### YOUR TRUSTED PARTNER

Our approach is to be a partner dedicated to providing you with the best electric heat and control solution for your process or application.

We are responsive, with a sense of urgency and a bias for action. From the moment a customer need is identified, Chromalox acts quickly to deliver the best solution while giving thorough, thoughtful, careful attention to detail. By limiting design iterations, meeting project timelines, and automating our manufacturing process, we deliver a satisfying customer experience and an efficient heating solution.

### UNCOMPROMISING QUALITY

Our constant focus on quality improvement provides our customers with a competitive advantage. Implemented statistical process control, investment in manufacturing automation, ISO 9001:2011 certification, and compliance to stringent third-party approvals demonstrate our world-class commitment.



# ADVANCED ELECTRIC THERMAL SOLUTIONS FOR EVERY APPLICATION.

We deliver complete electric heating solutions for your most challenging building and infrastructure applications.

We excel at employing our vast array of products and application knowledge to deliver the most cost effective and reliable solutions to protect your building and infrastructure from cold weather.

We can provide electric heating systems to generate steam/water for use in the building. We protect your plumbing and mechanical systems by keeping fluids flowing and hot water at temperature all the way to the fixture without the need for costly dual pipe designs and pumps.

We protect your buildings' occupants by providing safe, ice free entrances and exits for people and vehicles by melting surface snow and ice from exterior surfaces.

No matter how challenging your building or infrastructure environment, we have an electric heating solution tailored to exceed your specifications, meet your budget and improve the safety of your structure. Electric systems are both clean and efficient which help you achieve your decarbonization goals.



## 1 PIPE TEMPERATURE MAINTENANCE

### Keep Fluids Maintained at Temperature

Chromalox self-regulating heating cable and our energy efficient controls provides just the right amount of heat to protect your projects piping from 1/2" condensate drain lines to 24" Heating & Cooling Piping.

- ▶ Freeze protection
- ▶ Fire sprinkler freeze protection (UL listed)
- ▶ Plumbing/Mechanical Piping
- ▶ Process Temperature Maintenance
- ▶ Hot Water Temperature Maintenance
- ▶ Flow Maintenance

## 2 STEAM/HOT WATER GENERATION

### Steam to Water Domestic Hot Water Generation

Chromalox's steam/hot water generators for use in your building. These highly efficient heaters allow for "on demand" heating which saves floor space in modern mechanical rooms. These systems can operate at low voltage (120-600V) or medium voltage (up to 7,200V). Since they are electric they can help your building achieve it's net zero emissions goals.

## 3 COMFORT HEATING

### General Purpose Air Heating

Chromalox air heaters are designed and constructed for applications where freeze protection or comfort heat is desired. The heaters are quiet, reliable, wall or ceiling mounted self-contained blower heaters, or fan forced air washdown heaters. They are ideal for your building because they run quietly and virtually maintenance free since they have no fan or motor.

## 4 SURFACE SNOW MELTING

### Keeping Pedestrian & Vehicle Surface Safe

Chromalox's snow melting cables that provide surface snow melting and anti-icing for concrete surfaces and pavers. These systems keep walkways, parking garages, loading ramps, stairways and other areas free of snow and ice to help prevent slips and falls. Electric surface snow melt systems are easy to design, maintenance free, and present no environmental hazard.

## 5 ROOF & GUTTER DE-ICING

### Preventing Ice Dams on Roofs of all types

Chromalox's Self Regulating Heating Cable provides melt water a path to storm drainage. Paired with our state of the art energy efficient controls the cable will prevent Ice Dams from forming and keep your building damage free during the cold weather season.

## 6 FROST HEAVE PREVENTION

### Preventing Freezer Floors and Walls from Frost Heave.

Chromalox offers a variety of cables and control technologies for preventing frost heave of your freezer floor. Direct bury or in conduit systems are available for your project.

# ELECTRIC THERMAL PROJECT SUPPORT FROM DESIGN TO COMMISSIONING.

## FRONT-END PROPOSAL AND ESTIMATION ASSISTANCE

With more experience than anyone else in the industry, our engineering support staff can help to properly specify equipment that will get the job done right the first time.

## COMPREHENSIVE ENGINEERING CAPABILITIES

Our complete engineered systems reduce installation labor, decrease startup time, and ensure proper operation to specification. Chromalox provides engineering assistance by integrating our products into your application, offering a full range of engineering capabilities

## DESIGN TOOLS AND DELIVERABLES

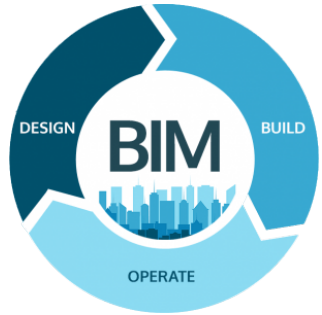
Chromalox's website contains all the information and tools needed to design a commercial heating solution. Our design programs will help you pick the proper product for your applications. From BIM content to spec sheets, our library of deliverables will give you the right information of develop your proposals.

## LEADING THE INDUSTRY

Chromalox maintains six state-of-the-art manufacturing plants throughout the world with more than 634,000 square feet (30,000 square meters) of manufacturing space. Our plants use automated machinery to ensure tightly controlled, repeatable quality standards. Our facilities are vertically integrated and also provide final assembly and functional testing. Chromalox maintains numerous global product and plant certifications.

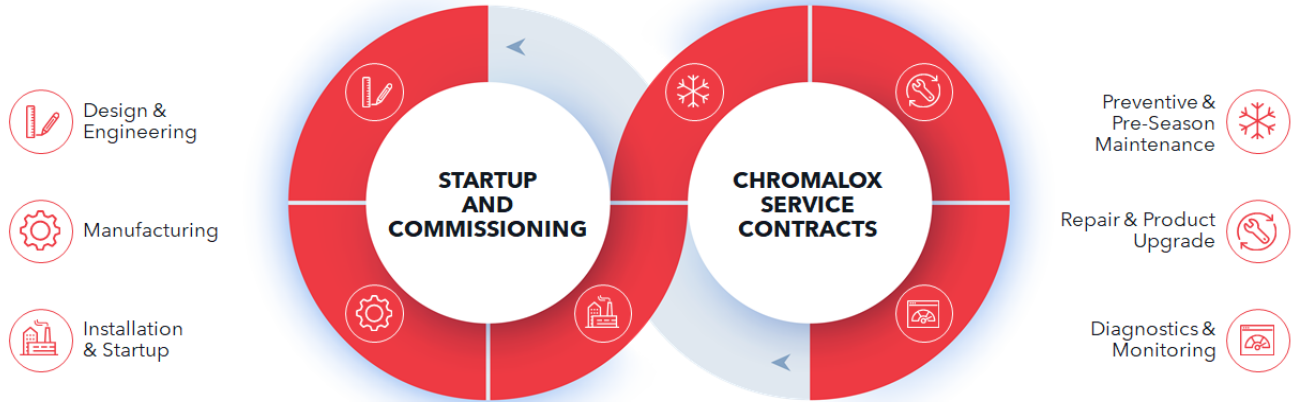
## GLOBAL THIRD-PARTY APPROVALS

Decades of providing electric heating solutions for more process industries around the world than anyone else is the basis for meeting international certifications, codes, and standards. Our products have earned more global third-party approvals than any other company in our industry.



# FIELD SERVICE & TECHNICAL SUPPORT.

As the world's most comprehensive manufacturer of electric heat and control products, Chromalox offers customized service solutions ranging from startup and training, to ongoing maintenance diagnostics, to emergency response. No one can maximize your investment with proper maintenance and assessment strategies better than Chromalox.



# CHROMALOX BUILDING & CONSTRUCTION REPS



## Organization

Applied Thermal  
 Admiral Distribution  
 Balfrey & Johnston, Inc.  
 Barclay Sales  
 Chicago Steam & Hydronics  
 Chromalox  
 Coleman Russell Associates  
 Daybreak Technologies  
 Faber Industrial Technologies  
 Focus Electrical Sales  
 Frontline Sales & Marketing  
 Johnson & White Sales Company  
 Liberty Electrical Sales  
 Marshall Rodeno  
 Midwest Spec  
 New England Sales Group  
 Provan  
 Raptor Associates  
 Specified Sales Associates  
 Strayton & Associates  
 Volco Company

## Website

[www.appliedthermal.com](http://www.appliedthermal.com)  
[www.admiraldistribution.com](http://www.admiraldistribution.com)  
[www.balfrey-johnston.com](http://www.balfrey-johnston.com)  
[www.barclaysales.com](http://www.barclaysales.com)  
[www.chicagosteam.net](http://www.chicagosteam.net)  
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[www.mwspec.com](http://www.mwspec.com)  
[www.newenglandsalesgroup.com](http://www.newenglandsalesgroup.com)  
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[www.raptorassoc.com](http://www.raptorassoc.com)  
[www.ssafila.ca](http://www.ssafila.ca)  
[www.heattracingsales.com](http://www.heattracingsales.com)  
[www.volco.net](http://www.volco.net)

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