More than ten million years ago heat was the catalyst, together with intense pressure, that distilled carbon-rich organic material into crude oil and natural gas. Today heat plays a vital role in unlocking, extracting, and transporting oil and natural gas.

Chromalox provides engineered heating and control systems for more processes throughout the world than anyone, with the broadest product line and experience unmatched in the industry. We furnish full design and engineering for virtually any electric, process heat, and control operation. We complete the package with turnkey service ranging from startup and testing, to ongoing maintenance diagnostic, to emergency response—all based on complete knowledge of your components, parts, and systems.

Let Chromalox be your catalyst for putting heat exactly where you need it.

- We are the only company that can deliver both temperature management solutions and process heating solutions.
- We have experience with more industrial processes than any other company, both with end markets and applications.
- We are more vertically integrated than any other company. From component to technology up through site services, there is more IP and know-how delivered organically by Chromalox than anyone.
- Chromalox has the largest team of localized technical sales engineers providing customers with individually customized heating solutions.

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Circulation Heaters

Circulation heaters operate as an electric heat exchanger. The process fluid is introduced to the piping network, which carries it through a heat exchanger where it is heated. Immersion heaters are then used to warm the circulating coolant. This method is particularly useful for heating large volumes of process fluids. Immersion heaters can be installed directly in process vessels, allowing for efficient and compact heating solutions. They are commonly used in scenarios where freeze protection or comfort heat is required, making them practical for use in chemical plants, oil refineries, and other industrial settings. When combined with other heating technologies such as efficient motors and combustion systems, immersion heaters offer a reliable and economical solution for heating applications. Immersion heater elements can be designed for use in a wide range of temperatures and can be mounted on walls, ceilings, or other structures for optimal heat transfer efficiency. This method has been widely adopted in various industries for heating fluids such as glycol mixtures, water, and oil. Circulation heaters are an integral part of the overall heating solution, ensuring optimal performance and energy efficiency in a variety of applications.
Circulation Heaters
Circulation heaters are used as an effective heat exchanger to provide heating to the process stream. Commonly, the process stream contains components such as water, steam, and gas streams. Circulation heaters are applied extensively in the process industries, such as paper and allied products, food and beverages, pharmaceuticals, and chemical processing. Circulation heaters are suitable for use on the process stream for heat recovery, temperature control, and heating of facilities. Circulation heaters are used to control the temperature of the process stream by heating or cooling the fluid. Circulation heaters are designed to provide effective heating or cooling of the process stream, ensuring efficient operation of the process.

Circulation heaters are available in a wide range of materials, such as carbon steel, stainless steel, and INCOLOY. Circulation heaters are also available in a variety of designs, including flanged, welded, and threaded connections. Circulation heaters are equipped with self-regulating and constant-wattage elements for efficient temperature control. Circulation heaters are suitable for use in hazardous areas, providing reliable and efficient temperature control for the process stream.

Large Tank Heating Systems
Large tank heaters can be used to heat large tanks or vessels containing a variety of media, such as water, oil, solvents, and viscous solutions. Large tank heaters are designed to provide effective heating and temperature control for the process stream. Large tank heaters are available in a variety of designs, including flanged, welded, and threaded connections. Large tank heaters are equipped with self-regulating and constant-wattage elements for efficient temperature control. Large tank heaters are suitable for use in hazardous areas, providing reliable and efficient temperature control for the process stream.

Immersion Heaters
Immersion heaters are used to heat liquids, gases, or solids. Immersion heaters are available in a variety of designs, including flanged, welded, and threaded connections. Immersion heaters are equipped with self-regulating and constant-wattage elements for efficient temperature control. Immersion heaters are suitable for use in hazardous areas, providing reliable and efficient temperature control for the process stream.

Circulation Heaters
Circulation heaters are used to heat the process stream containing liquids or gases. Circulation heaters are available in a variety of designs, including flanged, welded, and threaded connections. Circulation heaters are equipped with self-regulating and constant-wattage elements for efficient temperature control. Circulation heaters are suitable for use in hazardous areas, providing reliable and efficient temperature control for the process stream.

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Large Tank Heating Systems
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Immersion Heaters

Immersion heaters are used as an electric, heat transfer system to warm various sludge collections such as sumps and sludge lines. They are available in a wide range of heater types, including jacketed units, immersed units with or without jacketing, and in a variety of materials to suit specific applications. Immersion heaters can be used on process streams to warm or cool process streams, and they can be designed to operate in hazardous or non-hazardous areas.

Circulation Heaters

Circulation heaters are used to circulate hot fluid through heat exchangers to transfer heat to process streams. They are often used in conjunction with immersion heaters to achieve the desired temperature. Circulation heaters are available in a variety of materials, including copper, carbon steel, stainless steel, and INCOLOY, and they can be used in a wide range of applications, including food processing, chemical processing, and power generation.

Large Tank Heating Systems

Large tank heating systems are used to heat large storage tanks, such as those used in refineries, chemical plants, and power plants. They are designed to provide uniform heating and cooling to the contents of the tank, and they can be used with a variety of fluids, including water, oil, and steam. Large tank heating systems are available in a variety of materials, including copper, carbon steel, stainless steel, and INCOLOY, and they can be designed to operate in hazardous or non-hazardous areas.

Service and Maintenance

Chromalox offers a wide range of service and maintenance options for electric heating systems, including preventive maintenance, repair and replacement, and training. Preventive maintenance services include regular inspections and testing to ensure that the heating systems are operating efficiently and safely. Repair and replacement services are available for any component of the heating system, and training is provided to help operators effectively manage and maintain the heating systems.

Chromalox is the only electric heating equipment producer to offer a complete line of products, controls, and services. Our advanced technology, experienced engineers, and commitment to excellence enable us to deliver the most effective and efficient heating solutions, providing a reliable source of clean, safe and effective electric heat for the world’s most demanding heating applications.
More than ten million years ago heat was the catalyst, together with intense pressure, that distilled carbon-rich organic material into crude oil and natural gas. Today heat plays a vital role in unlocking, extracting, and transporting oil and natural gas.

Chromalox can deliver engineered heat and control systems for more processes throughout the world than anyone, with the broadest product line and experience unmatched in the industry. We perform full design and engineering for virtually any electric process heat and control operation. And we complete the package with custom services ranging from startup and testing, to ongoing maintenance diagnostics, to emergency response—all based on complete knowledge of your components, parts, and systems.

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• We are vertically integrated like no other company. From component technologies up through site services, there is no IP and know-how delivered organically by Chromalox than anyone.

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Chromalox provides precision-engineered heat and control systems for more processes throughout the world than anyone, with the broadest product line and experience unmatched in the industry. We furnish full design and engineering for virtually any electric process heat and control operation, and we complete the package with customized services ranging from startup and training to ongoing maintenance diagnostics, to emergency response—all based on complete knowledge of your components, parts, and systems.

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