

SCIENTIFIC/ANALYTICAL INSTRUMENTATION

A superior way to apply heat to objects in the laboratory or research & development environments

Application

In many Research & Development and Laboratory applications, surface heat is required to successfully conduct experiments and tests. The heat may be required for a number of reasons:

1. Temperature Compensation - Varying results due to temperature fluctuation are eliminated when the temperature is constant over several repetitions or tests.
2. Vacuum Bake-out - Heat helps release moisture and impurities/particulates in a closed system to allow the test results to be more accurate and consistent.

A higher temperature may be required to generate the desired results.

Solution

BriskHeat's Custom Cloth Heating Jackets are ideal for scientific/analytical instrumentation applications. They can be custom designed and manufactured to fit almost any size and configuration. BriskHeat's multi-stranded grounded heating element provides ultimate durability, reliability, customization, and safety. Custom cloth heating jackets are made to ensure intimate surface contact. This provides maximum efficiency and consistent heat across the entire heated area. The built-in insulation maximizes thermal efficiency and provides safe touch while being heated up to 1,100°F (593°C) and maintaining very tight tolerances. Custom cloth heating jackets can be made using low particulate materials to meet cleanroom standards and have several closure options to make installation and removal quick and easy without risk of damaging the heater.

Our custom cloth heating jackets can be engineered to integrate our LYNX® control systems. Multiple jackets can be "daisy chained" together and operate for a single operator interface. The MPC2 Multipoint Temperature Control Panel allows for multiple heaters to connect to each zone for PID control. Many desirable safety features are integrated into the panel.

XtremeFLEX® Flexible Heating Tapes and Cords are extremely versatile, easy-to-use, and an economical choice for laboratories and research & development facilities. HTCE heating cords are grounded heating elements that can be wrapped around objects as small as 1/8 in diameter. The durability and flexibility of XtremeFLEX heating tapes and cords allows them to twist, turn, bend, and wraparound many objects; even those with diameters as small as a pencil. In addition, some cloth tapes have high temperature capabilities up to 1,400°F (760°C) and watt densities up to 13.1 W/in² (0.020 W/mm²). These features allow them to heat-up very quickly and maintain high operating temperatures. A wide range of standard sizes are available to fit most application needs, with custom sizes available upon request. To improve energy-efficiency, it is recommended that heating tapes are used in conjunction with insulation.



HTCE

MPC2



Products

Custom Cloth Heaters
MPC2 Control Panel

XtremeFLEX® Heating
Tapes & Cords

Types of Users

Professors
Students
Lab Managers
Scientists

Chemists
Process Engineers
Project Managers

Industries

Agriculture
Analytical Instrumentation/
Laboratory
Chemical Processing/
Extractions
Life Science/Medical/
Pharmaceutical

Semiconductor, Flat
Panel, & Photovoltaic/
Solar
Water/Wastewater
Treatment