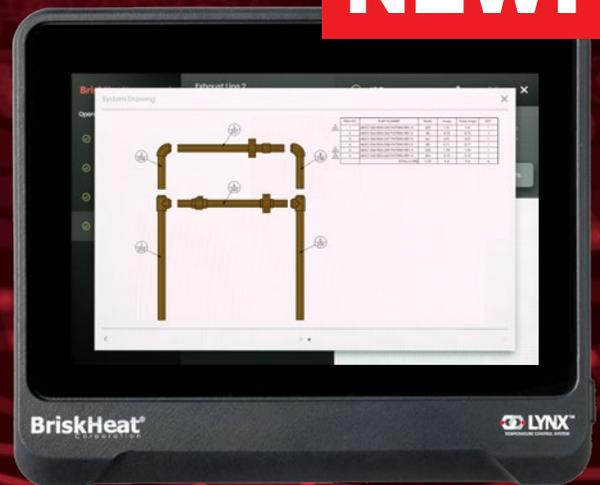


# **LYNX**<sup>™</sup> TEMPERATURE CONTROL SYSTEM

*Your Link to Process Perfection and Peace of Mind*

**NEW!**



## LYNX™ TEMPERATURE CONTROL SYSTEM

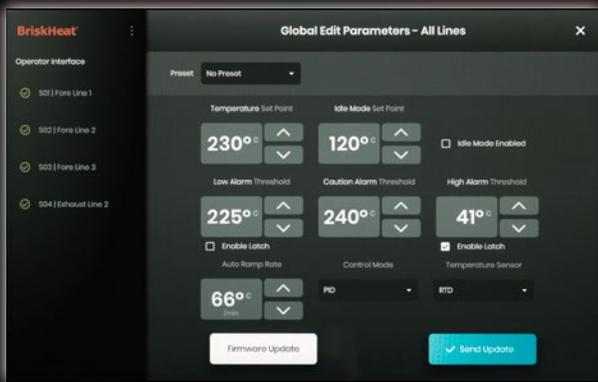
The LYNX Temperature Control System is a state-of-the-art PID (proportional integral derivative) temperature control system comprised of up to 1,024 zones. Each heater (zone) can be individually controlled and monitored. This provides users the ability to track each unit's performance. Monitor each zone from the full-color touchscreen, the highly visible indicator lights, a remote system, or via email alerts. Extraordinary features and benefits coupled with incredible versatility meet your process expectations with this unique temperature control system.



- ▶ 1:1 PID control to EACH heater
- ▶ Can be used independently or as a system of up to 1,024 zones of control
- ▶ Easy to use Operator Interface (OI) and Temperature Control Modules
- ▶ Can connect to CMS via Modbus
- ▶ Sends email alerts
- ▶ Idle mode option saves energy and time during maintenance

## LYNX™ OPERATOR INTERFACE PANEL HIGHLIGHTS

► Provides complete control and system optimization for maximum precision



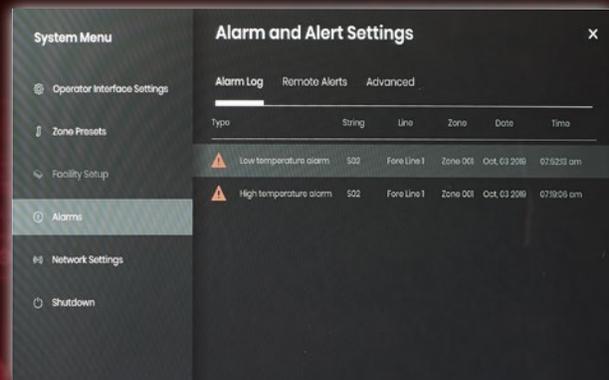
► User-configurable graphical mapping and naming to match application provides ease of use



► Historical graphing of temperature, duty cycle and current displays performance over time



► Alarm history for diagnostics



► Controls up to eight (8) strings with up to 128 PID controllers per string for expandability

► Each string has individual dry contact for alarm to provide easier troubleshooting



► Additional Highlights

Features	Benefits
Large 25.7 cm (10.1 in) touchscreen	Allows for easy monitoring and programming
Wired or Wireless (WiFi) Communications	Sends email alerts
Modbus communications	Allows remote access and control via HMI
Zone-locator feature	Enables user to easily identify specific modules
USB port	Simplifies ability to upload firmware and download data
Global programming	Saves time

## LYNX™ PID DIGITAL CONTROL MODULES HIGHLIGHTS

- ▶ 1-to-1 control for each heater promotes uniformity



- ▶ Fully functional PID controller in a small, compact design to fit in tight spaces



- ▶ Can be used with a wide variety of heaters



## LYNX™ PID DIGITAL CONTROL SYSTEM HIGHLIGHTS

► Use controllers independently or in a system for maximum versatility



► Highly visible multi-color display indicates operating status

► Select between latched and unlatched alarms



► Additional Highlights

Features	Benefits
"Smart controller"	Provides self-diagnosis of heaters and sensors
3-button touchpad	Ability to program at module
Large 3-digit display	Makes temperature easy to see
PID with auto-tuning	Allows for tighter control of your process
Low and high temperature alarms	Provides additional control and peace of mind

## LYNX™ SPECIFICATIONS

### Specifications:

**Voltage:** 100 – 277 VAC

**Max. Amp Load:** 7 amp at 25°C (77°F) ambient; 4 amp at 40°C (104°F)

**Temperature Control Range:** 0°C to 600°C (0°F to 999°F)

**Display:** Red LEDs show current temperature in °F or °C

**Sensor Input:** Type-J and Type-K Thermocouples; PT100-RTD

#### Accuracy:

- RTD:  $\pm(0.25^{\circ}\text{C} + 0.125\%$  of temperature in  $^{\circ}\text{C}$ ) ( $0.45^{\circ}\text{F} + 0.125\%$  of temperature in  $^{\circ}\text{F}$ )
- J Thermocouple:  $\pm 1.09^{\circ}\text{C}$  ( $1.96^{\circ}\text{F}$ )
- K Thermocouple:  $\pm 1.13^{\circ}\text{C}$  ( $2.03^{\circ}\text{F}$ )

**Alarms:** Multi-color LED display with highly visible viewing

**Power cord:** Harness are sold separately; available in several lengths, with or without communications cable

**Connections:** Control modules require docking station (included with some heaters or separate harness for stand-alone use); see ordering information for options

**Modbus:** Modbus RTU cable is included on some power cord harnesses for communication to Operator Interface or CMS; Modbus TCP/IP connection on Operator Interface for communication to CMS

#### Enclosure Rating/Classification Designation:

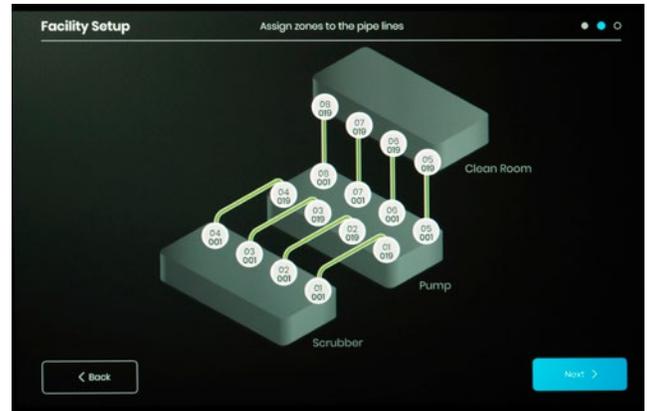
- Operator Interface: IP10
- Docking Station and Control Module: IP 20

#### Environmental Exposures:

- Altitude up to 2,000 m (6,562 ft)
- Operating range: 5°C to 40°C (41°F to 104°F)
- Storage range: -40°C to 60°C (-40°F to 140°F)
- Relative humidity: up to 80% at 31°C (88°F) decreasing to 50% at 40°C (104°F)

#### Enclosure Dimensions:

- Operator Interface: 276 mm wide x 229 mm high x 81 mm deep (10.9 in wide x 9.0 in high x 3.2 in deep)
- Module: 49.5 mm wide x 75.4 mm high x 43.2 mm deep (1.95 in wide x 2.97 in high x 1.7 in deep)



Intertek

pending



pending



## LYNX™ TEMPERATURE CONTROL SYSTEM

 LYNX™ has the flexibility to be used in a variety of applications with a wide range of heating products. BriskHeat Corporation's Application Book includes examples of many applications with additional documents available at the  LYNX™ resources tab. [www.briskheat.com/applications/application-book.html](http://www.briskheat.com/applications/application-book.html).

Below is a sample of applications where  LYNX™ is the solution:

### Some Typical Applications

- Deposition and Etch Processes
- Gas Delivery System Heating
- Gas Line Heating for Solar Cell Production
- Food Shortening Warming
- Perfume & Flavor Viscosity Control
- Brewery Lab Flavor Testing
- Scientific/Analytical Instrumentation
- Particle Accelerator
- Vacuum Bake-Out
- Wet Laboratory Heating
- Dry Chemical Processing
- Cosmetics Process Heating
- Laboratory, and Research and Development
- Valve, Pump and Individual-Object Heating
- Cannabis Distillation



## ABOUT BRISKHEAT

BriskHeat offers a full range of surface and immersion heating solutions. We help our customers decrease downtime, increase throughput, and maximize profits. Large projects or small, high volume or low, domestic or world-wide, BriskHeat stands by to help you with any surface or object heating application you might encounter. With an accessible staff of sales and application engineers experienced at helping you find the most economical solution for your needs, BriskHeat is your heating specialist.

# BriskHeat®

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