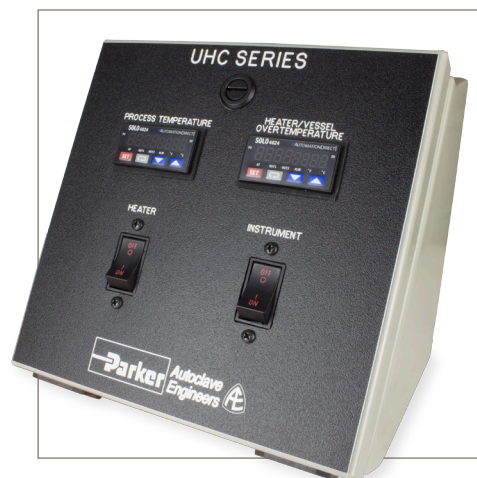


Universal Heater Controller (UHC)

Process Temperature and Heater Temperature



Principle of Operation:

The Universal Heater Controller (UHC) provides the temperature control required for the majority of our stirred and non-stirred reactor systems. The unit will provide the customer with a complete temperature control solution for their system.

Features and Benefits:

- Temperature control provides closed loop, PID control for vessel heating system
- Over temperature control inhibits heater power when vessel external walls exceed preset limit

General Specifications:

Electrical Power Requirements: 100-120 VAC, 15 Amps, 50/60 Hz or 200-240 VAC, 50/60 Hz

Dimensions: 8" High x 9.5" Wide x 7.25" Deep (203 mm H x 241 mm W x 184 mm D)

Temperature Control Output: 15 Amp, Solid State

Temperature Sensor: Type K Thermocouple

Option Module Specifications:

Temperature Control

The Temperature Control provides closed loop, PID control for vessel heating systems. This module matched with the appropriate output device to interface with electric furnaces as well as circulations systems. The controller instrument includes an adjustable set point ramping function as well as a high temperature alarm signal which is used by the system.

Temperature Sensor / Units

The standard temperature sensor: Type K Thermocouple. Fahrenheit or Centigrade Temperature units of display may be selected.



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Over-Temperature Controller

The Over-Temperature Controller provides the ability to shutdown a vessel's electrical heater in the event a high temperature is sensed at the vessel skin. The controller includes a digital display of vessel skin temperature as well as employing a non-latching alarm contact which will automatically re-energize the heater when the temperature falls below the alarm set point.

Cables, Interconnect

Ten foot (3 meter) cables are provided for interconnect of the UHC and the Vessel (Reactor).

Approval

Optionally provides specific modification for various agency approvals: UL, CUL, CE.

CE approval standard on all units. UL/CUL optional based on part numbers

Ordering Information:

- **UHC-120:** 120 VAC, CE Mark for furnaces up to 1400 Watts
- **UHC-240:** 240 VAC, CE Mark for furnaces up to 2800 Watts
- **UHC-120-UL:** 120 VAC, UL/CUL Mark for furnaces up to 1400 Watts
- **UHC-240-UL:** 240 VAC, UL/CUL Mark for furnaces up to 2800 Watts

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Caution! Do not mix or interchange component parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings, and Tools are not designed to interface with common commercial instrument tubing and are designed to only connect with tubing manufactured to Parker Autoclave Engineers AES specifications. Failure to do so is unsafe and will void warranty.

Bulletin IN-UHC

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