



PRODUCT SPECIFICATIONS

# GCCH™ GAS CALIBRATION CYLINDER HEATER

### APPLICATION

There is a requirement to maintain elevated process temperatures for gas calibration cylinders to prevent gas stratification, drop out of heavier molecules and associated condensation problems. The change over of cylinders requires the need for a heating/insulation system that is easy to remove and reinstall. It is common for the cylinders to be located in a hazardous (classified) area e.g. Class 1 Zone 1.

### SOLUTION

Thermon provides a heated and insulated cover that utilizes Thermon self regulating heater cable attached to the inside of a flexible weatherproof insulated jacket. An Ex rated thermostat with the heater cable fully terminated is attached to the insulated cover.

To ensure optimal performance, each system is custom engineered by Thermon based on the heating requirements of the application.<sup>1</sup>

### RATINGS

Supply voltages ..... 110-277 Vac  
Typical maintenance temperature .... 0-80°C adjustable  
Current..... < 2 amps  
Electrical classifications.....Class 1 Zone 1, T3  
Insulated jacket temperature range ..... -55° to 260°C

Note

1. See Design Input Requirements on next page.



### CONSTRUCTION

- 1 Thermon HTSX self regulating heater. Length & wattage custom selected.
- 2 Positive temperature coefficient heat tracing to avoid overheating and meet T ratings.
- 3 Inner & outer cover silicone impregnated fiberglass cloth with a core of applicable thermal insulation.
- 4 Trace heater is attached to the inside of the insulated cover.
- 5 Ex thermostat is attached to insulated cover and trace heater is fully terminated.
- 6 Velcro construction for easy removal from cylinder.
- 7 Complies with IEC/NEC hazardous area norms.

**THERMON The Heat Tracing Specialists®**

ISO 9001  
REGISTERED

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## DESIGN INPUT REQUIREMENTS (Please complete form)

Cylinder Manufacturer	
Cylinder Material	
Cylinder Country of Origin	
Cylinder Size Code	
Maintenance Temperature	°C
Allowable Minimum Maintain Temperature	°C
Allowable Maximum Maintain Temperature	°C
Minimum Site Ambient Temperature	°C
Maximum Site Ambient Temperature	°C
Electrical Area Classification	
Supply Voltage	Vac
Special Conditions	