

## Cylinder Heat Blankets

Your calibration standard represents a significant investment of time and money. Exposing calibration standards to temperatures below their Hydrocarbon Dew Points may cause stratification, with the heavier components settling to the bottom of the cylinder and the lighter components collecting near the top. Opening the cylinder valve in this condition may release the lighter components, altering the composition of the calibration standard. When this occurs, the quality of your calibration standard is compromised and each component's actual concentration changes - certain values will increase while others will decrease. Either way, the analytical data is erroneous, the long hours spent analyzing wasted and your calibration standard is ruined.

Protect your calibration standard and your instrument calibration tables from temperature induced stratification with a DCG Cylinder Heat Blanket.



DCG Cylinder Heat Blanket's internal fabric is silicon impregnated and offers excellent thermal conductivity. Its exterior is covered with a durable and versatile rugged black fabric with high tensile and tear strength. 1 ½" closed cell thermal insulation offers superior heat retention. The closed cell insulation is held in place with buttons sewn into the blanket to prevent the insulation from bunching at the bottom of the blanket and has a water absorption rate of 0.2% by volume according to ASTM C 209. DCG's Cylinder Heat Blanket fits securely, fastened with stainless steel buckles to seal the opening and minimize heat loss. DCG Cylinder Heat Blankets are available in a number of sizes and provide sufficient power to overcome the most inclement weather.

Numerous safety features have been built into DCG's Cylinder Heat Blanket to prevent run away heat or inadequate heating. Some of these features are twenty-five feet of fifteen watts per foot self-limiting heating cable covered with a fluoropolymer over-jacket and grounded braid which is sewn into the blanket. Every blanket is equipped with an adjustable analog thermostat that is preset to 125°F and a temperature control cut-off device (TCCD) that is preset to cut power to the cylinder heat blanket if the skin temperature of the cylinder reaches 179°F. *If power is cut off*, the Cylinder Heat Blanket must be returned to DCG to have the TCCD reset and determine the cause of overheating.

In DCG's continuing quest to improve products several changes have been made to the Cylinder Heat Blanket. They are:

- The blankets have been resized to decrease the dead space between the blanket and the cylinder to minimize heat loss and maximize thermal efficiency.

4170 A Main Pearland, TX 77581 PH: 281-648-1894 FAX: 281-648-1895  
www.dcgpartnership.com  
E-mail: sales@dcgpartnership.com

Chromatographic Reference Materials



- Loop and hook closures have been added to the bottom of the regulator hat and the top of the cylinder heat blanket to securely fasten them together minimizing heat loss through the top of the cylinder heat blanket.
- Internal stitching on the cylinder heat blanket has been increased to minimize movement of the self-limiting heating cable and insulation.
- The thermostat temperature sensing bulb (TTSB) has been pre-attached to the cylinder heat blanket in the recommended position through a series of loops to prevent the TTSB from coming in close proximity of the self-limiting heating cable and to minimize the chance of the installer failing to attach or improperly attaching the thermostat temperature sensor bulb to the cylinder.
- Each Cylinder Heat Blanket undergoes performance testing to assure a quality product.
- An optional thermostat stand is now available.

All connections are made in an explosion proof junction box using sealing compound designed to use in hazardous locations in accordance with NEC codes Article 501, 501.3b, 501.4b and 501.5 b & c. The junction box is sealed to the proper torque as required by the junction box manufacturer. Twelve feet of wire in a liquid tight flexible metal conduit ends with a hot end termination. This blanket comes pre-wired for easy installation by a certified electrician. All cylinder heat blankets are tested for safety and performance before shipment.

Safety is a primary concern at DCG. Our cylinder heat blankets are assembled from materials approved and certified by Underwriters Laboratories, Inc. or Factory Mutual for Class I, Division 2, Groups B, C & D use. Please contact a DCG Technical Specialist for more information regarding this product.



4170 A Main Pearland, TX 77581 PH: 281-648-1894 FAX: 281-648-1895  
www.dcgpartnership.com  
E-mail: sales@dcgpartnership.com

Chromatographic Reference Materials