

ATMOS™ HEATING JACKET



Quick Start Guide

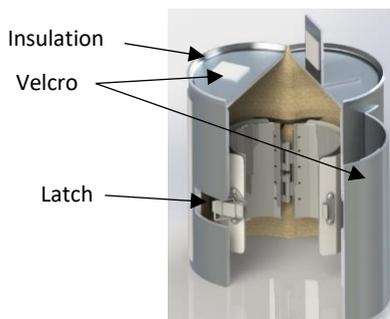
For use with the Atmos A2.5, A5, A10 & A20 Gas Cells



More detailed information can be found in the Instruction Manual on the USB stick.

Step 1 – Install the heating jacket

The metal portion of the Atmos heating jacket opens to fit around the gas cell and is secured with a latch at the front. The latch should be at the front with the cable exiting the back of the gas cell. Velcro is then used to secure the insulation around the gas cell. Ensure the gas cell is secured to the spectrometer using the lever-lock baseplate.



Step 2 – Connect Controller

Connect the heating jacket to the 4000-series controller. The connector is secured by rotating the outer portion of the connector clockwise. Connect the controller to a mains outlet using the cable provided.

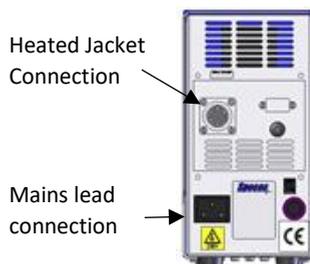


Fig 2. Controller Connection

ATMOS™ HEATING JACKET



Step 3 – Set Temperature

Power on the controller using the switch on the front. This displays two temperatures: current temperature (top) in **red** and target temperature (bottom) in **green**. Use the up and down buttons to adjust the target temperature. The maximum is **210 °C**.

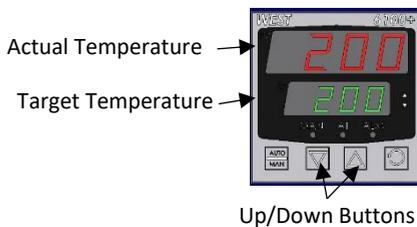


Fig 3. Controller Display

Step 4 – Cooling Down



Warning: When heated above ambient temperatures, the cell must be cooled with a continuous flow of purge gas to prevent contaminants depositing and damaging the mirrors.

First Use Cleaning



It is recommended that the cell is heated to 200 °C for 2 hours with a flow of purge gas. This will remove most of the adsorbed contaminants on the metal body of the Atmos Gas Cell (refer to section 5 of the manual).

General Safety Warnings



Warning: During use some surfaces of the gas cell and heating jacket will get hot and **must not** be touched.



Warning: The pressure of gas inside an enclosed cell may increase when heated. The Atmos gas cells **must not** exceed its rated maximum pressure of 8.6 bar (125 psi).

A pressure relief valve or device (vented in a safe manner) is strongly recommended and **must be fitted** when heating a sealed cell.