

Fire Damper Actuator Protection



The Firetex Soft Enclosure System has been developed to provide thermal protection during fire conditions to actuators operating fire dampers. Design of the system is based on the thermal mass of the equipment to be protected together with the constraints dictated by the time period of protection and the manufacturers surface temperature limitations for continued operation.

Performance of the enclosure system has been established in independent fire test procedures undertaken by MCL Unitex and Fire Damper manufacturers at The Warrington Fire Research Establishment. Successful tests have been conducted on a number of varying actuators, up to 400° C for periods up to two hours, which differ in overall size, shape mass and limiting surface temperatures.

As a direct result of many years experience in fire testing MCL have developed a computer modelling programme, CALPRO, which can predict the surface temperature of any equipment to be protected minute by minute for up to two hours. Fire temperatures, duration, mass and overall dimensions of equipment and limiting temperatures are entered into the programme which calculates the optimum thickness and density of insulation required.

The advantage of the Firetex system is it is lightweight, requires no special tools or skills to install and can be easily removed for maintenance purposes.