



Temperature controlled rooms have a wide range of applications in scientific testing, food processing and storage, which are pivotal to many industries.

Scientific testing presents the most problems as it often requires samples, experiments or even full-scale labs to be kept at a constant and consistent temperature to attain accurate results. At Ryan-Jayberg we specialise in the design and construction of temperature controlled rooms. One Recent project Ryan-Jayberg headed involved the design and construction of 4 individual bespoke coldrooms with internal storage volumes ranging in size from 49 m³ to 671 m³. The coldest room running at -20°C and the hottest at +35°C, however each room was set up to be able to run from between -20°C and +45°C. Each room had to operate within $\pm 2^\circ\text{C}$ relative to the set temperature.

To achieve this, high strength, rigid, closed cell foam was expanded into the wall cavity bonded to the inner and outer panel skins which leaves no air gaps even after extended low temperature operation. The wall panels are of the highest quality made using state of the art production equipment making them efficient and resistant to mould, fungi, mildew and vermin. A specially selected Air handling unit for each room ensures the temperature remains consistent throughout the room. All of this complying with BS standards.



Case Study - Multi Temp Rooms

