## callidus design limited

## **Project profile**

**Project Description: New Low Humidity ISO Class 7 Cleanroom Production Area** 

Location: Stirling University Innovation Park Stirling Medical Innovations Limited Client:

**Project Value:** £670K

**Project Duration:** January 2009 - August 2009



Callidus Design Limited were appointed by Stirling Medical Innovations (now known as Alere Technologies Ltd) as lead designer to design a new Low Humidity, ISO Class 7 Cleanroom (Class 10K) facility within their existing building. The facility allowed SMI to commence prototype production of a new medical device which they had recently developed. The works involved the design of a new HVAC system which was capable of operating over a wide range of temperature and humidity setpoints. This flexibility essentially provided SMI with an environmental chamber, the conditions of which could be varied over a wide range in order to test the stability of their product in varying environmental conditions. Callidus Design Limited were responsible for the design and specification of the following services:

205m<sup>2</sup> Supply and recirculation ventilation installation; Cleanroom Area:

Cleanroom Classification: ISO Class 7 (Class Fresh air ventilation installation;

Dedicated chilled water installation; 10k)

Dedicated LTHW heating installation; Temperature Range: 17 to 23 DegC 10 to 70 %RH RO Water installation; **Humidity Range:** 

220m<sup>2</sup> Ancillary and Support Areas: Clean dry air installation;

Fume exhaust installation;

Domestic water installations; Main Contractor: ROK Group

Drainage installations; Architect: G1 Architects Quantity Surveyor: **Turner Townsend** Lighting installation;

M&E Building Services Engineer: Callidus Design Small power installation;

Fire alarm installation; Limited

PA installation;

Security installation;

Controls installation.

In order to accommodate the plant associated with the new cleanroom, a new dedicated plantroom had to be carefully configured within the confines of a small site.