

## ABOUT US

**Resonate Testing Limited offers a state-of-the-art test facility, between Dublin and Belfast. Our primary focus lies within our three cornerstones of testing:**

- **Vibration and Shock**
- **Fire and Flammability**
- **Environmental**

As part of The Nacelle Group we have a wealth of expertise in engineering test specification and component certification and validation.

## COMBINED ENVIRONMENTAL TESTING

**To complement our vibration and fire testing facilities, we offer a range of environmental tests, such as high temperature, low temperature and thermal cycling with rapid ramp rates. We can also perform combined temperature and humidity tests.**

If you have a component which is likely to be exposed to extreme environmental variance, your item can be tested to determine the effects of temperature excesses and humidity. The impact of large, swift variations in temperature can also be measured.

Additional thermocouples and data-logging facilities can be provided.

We can conduct tests for a range of industries including aerospace and space applications, automotive, energy sector, medical, etc.

**Please do not hesitate to contact us with your specific requirements.**



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## EQUIPMENT AND CAPABILITIES

Our Thermotron RSS-16-LN2 temperature testing chamber has 16ft<sup>3</sup> of test space (internal dimensions of H30" x W26" x D34") and is capable of providing cooling and heating between -100°C to +200°C, with a ramp rate of up to 20°C per minute if required. The chamber, with 100% throttle, is capable of the following transitions:

- +150°C to +83°C in 30 seconds
- +83°C to +34°C in 60 seconds
- +34°C to +4°C in 90 seconds
- +4°C to -20°C in 120 seconds
- 20°C to -50°C in 160 seconds



The cooling and heating capability of this chamber was commissioned in response to the most demanding aerospace and high-end engineering temperature variation requirements.



Additionally, our Weiss SB11 environmental chamber, with internal dimensions of H26" x W21" x D16.5", offers a temperature range between +180°C and -40°C, with a ramp rate of approximately 3°C per minute. This chamber provides a 10-98% relative humidity.

If required, we can also design and fabricate rigs to ensure your item is appropriately positioned within the chambers.