

# Outdoor Cabinets for Telecommunications and Electronic Equipment

**Market:**  
**Telecoms**

Rainford Solutions is an established designer and manufacturer of the specialist outdoor electronics enclosures and heat management systems used for the field deployment of electronic equipment in telecommunications networks.



## ***Track record and scope and product overview:***

**Rainford Solutions** has in excess of 25,000 units deployed throughout the UK, Europe and the Middle East and our products address all of the requirements of outdoor electronic enclosures including:

- ***environmental protection*** (protection against dust and water ingress to **IP54** and **IP55** as standard with options for **IP65**),
- ***heat management and humidity control*** (air-con, heat exchanger and forced air),
- ***EMC*** (electromagnetic shielding and electrical power and signal filtering),
- ***electrical surge protection***,
- ***acoustic signature management***,
- ***physical protection and vandal resistance***,
- ***ease of accessibility and maintenance***, and
- ***aesthetics and environmental considerations***.

## ***Applications:***

- **Mobile,**
- **VDSL,**
- **WiMax,**
- **FTTX,**
- **WiFi.**

## ***Key benefits:***

- **Low cost and ease of deployment** (man-portable no cranes required),
- **Customised** to satisfy individual customer and site requirements,
- **Large range of sizes and layouts,**
- **virtually maintenance free,** and
- **available on short lead-times** and from **stock** (subject to supply agreement).

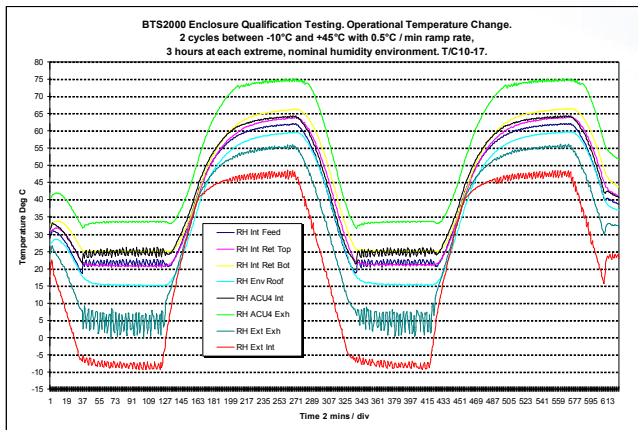
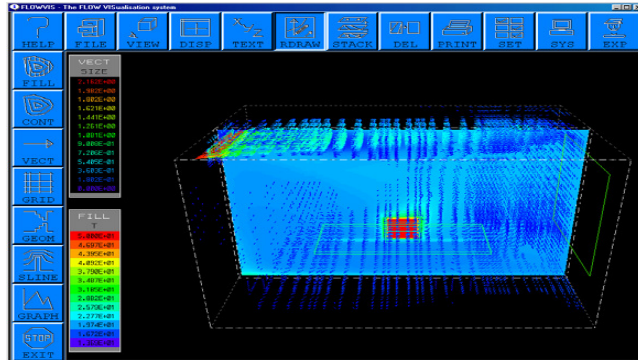


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**Design and development:**

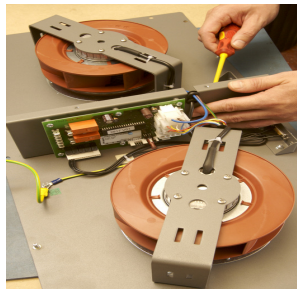
Our engineering and development capabilities include extensive in-house mechanical modelling and CAD/CAM facilities and the ability to carry out full thermal modelling, environmental testing and certification of fully populated enclosures under operational conditions.



**Thermal Analysis and Environmental testing**

**Heat Management Systems:**

Rainford Solutions enclosure systems include the necessary heat management, consisting of either forced air, heat exchanger or air-conditioner based systems together with their associated control electronics and software.



**Manufacturing:**

- 80,000 sq ft facility,
- ISO 9001: 2005 approved,
- All major processes in-house,
- Materials:

- Mild Steel,
- Zintec,
- Stainless Steel,
- Aluminium (sheet and extrusions)

