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**Verotec helps ESS Sweden prepare for scientific breakthroughs**

**Released July 23, 2018**

The European Spallation Source (ESS) is a European Research Infrastructure Consortium (ERIC) multi-disciplinary research facility based on the world’s most powerful neutron source. Once operational in 2023, the facility will enable scientific breakthroughs in research related to materials, energy, health and the environment. It is under construction in Lund, Sweden, with its associated Data Management and Software Centre (DMSC) based in Copenhagen, Denmark. Verotec have supplied modified [IMRAK and VERAK](http://www.verotec.co.uk/racks-accessories-c-9.html) EMC cabinets for use in research and development laboratories in Lund.

Large amounts of radiated energy will be generated when the target is exposed to the neutron beam. Accordingly, the IMRAK and VERAK units feature a galvanized conductive finish throughout the interior of the cabinet to improve the EMC shielding performance. The large amount of data processing in the cabinets means that heat dissipation, estimated at 40kW per cabinet, will also be another significant consideration, so the 800mm wide units are customized with the 19 inch mounting area offset to the left from the centre of the unit to provide a 200mm wide channel on the right hand side. This space has been configured to enable custom air/water heat exchangers to be mounted directly into each cabinet.

Verotec’s Marc Harvey said, “We have supplied many modified IMRAK cabinets and other electronic packaging to research facilities around the world. For example we have recently supplied the Diamond Light Source UK national synchrotron science facility with customized [KM6-HD-based](http://www.verotec.co.uk/subracks-c-1.html) EMC screened systems. We are pleased that our expertise in modifying our standard product platforms is recognized and appreciated by the scientific community.”

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**Notes to editors.**

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