



CASE STUDY

MINI FIRE EXTINGUISHERS SUPPLEMENT PREVIOUS NITROGEN EXTINGUISHING SYSTEM

INTEGRATED FIRE PROTECTION PROTECTS EUROPEAN XFEL ACCELERATOR

The European XFEL is a superlative research facility. Extremely intense laser light flashes in the X-ray range are generated in the underground tunnel facility in the Hamburg metropolitan region.

With up to 27,000 laser light flashes per second and a luminosity a billion times higher than X-rays from the best conventional sources, the world's largest X-ray laser offers completely new possibilities for researchers and industrial users all over the world.

The X-ray laser is largely located in underground tunnels, with access provided by three operating sites. The 3.4 km long facility extends from the DESY campus in Hamburg to the town of Schenefeld (Pinneberg district, Schleswig-Holstein). There is a research campus where international teams of scientists can conduct experiments with the X-ray flashes.

The beams make it possible to see atomic details of viruses, film chemical reactions, and study processes such as those inside planets. To protect the accelerator that makes this sensitive research process possible, JOB AMFE systems are now being used.

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We are pleased to be able to test the AMFE as an **innovative extinguishing system** in our research environment.



Picture: DESY/Maria Meyer

Fabian Saretzki, Fireprotection Engineer,
Deutsches Elektronen-Synchrotron (DESY)



The crucial point for the conversion to an AMFE extinguishing system was the saving of acquisition and maintenance costs. In addition, the installation of the AMFE is more space-saving than the previous N2 system model. Another plus point is the low maintenance requirements, as the AMFE does not rely on complicated piping and is easily accessible from the outside.

The plant was implemented by our partner Multicomsystem and integrated by the company A+S Hamburg.

The installation in the European XFEL includes several control cabinets.

The AMFE supplements the previous nitrogen extinguishing systems

PROJECT SUMMARY:

Country: Germany
Segment: Research
Integrator: Multicom System OHG
Customer: European XFEL GmbH
Solution: S-AMFE



For questions about application possibilities or technical details about the AMFE, please contact Markus Fiebig.
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AMFE with Manometer



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