

FLASH- and XFEL Helium Refrigerators at DESY – Overhauling, Maintenance and Repair

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Three helium refrigerators, each of about 8 KW 4.5K equivalent capacity, are in operation at DESY since about 30 years. These plants were in service for the superconducting HERA accelerator until the final shut down of HERA. One refrigerator continued operation to supply the superconducting FLASH linear accelerator, the XFEL accelerator module test facility (AMTF) and some smaller cryogenic test components. The remaining refrigerators were overhauled and modified into the 'XFEL-refrigerator' to supply the superconducting XFEL linac. Strategies and measures for overhauling, repairs and maintenance of the involved systems are reported.

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