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## FAST COOLING FURNACE PROJECT.

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With improved data collection times due to improved detectors and neutron guides, and the increase in flux at new facilities under construction such as the European Spallation Source. There is a need to develop ways to increase the efficiency of sample environment equipment. As part of the SINE 2020 joint European project a task has been undertaken to speed up furnace cooling times reducing them from hours to minutes, making high temperature neutron experiments more efficient. This will prove to be an essential piece of equipment for facilities like the European Spallation Source for the future as well as improve efficiency at existing neutron facilities. This poster explains the test, design and development procedure undertaken to deliver this task as well as the efficiencies it can deliver. With the addition of automation this modification to existing beam line furnaces will provide an efficient user friendly system.

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