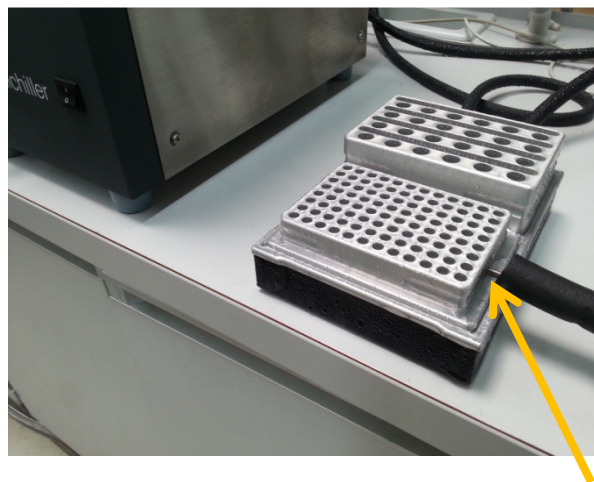
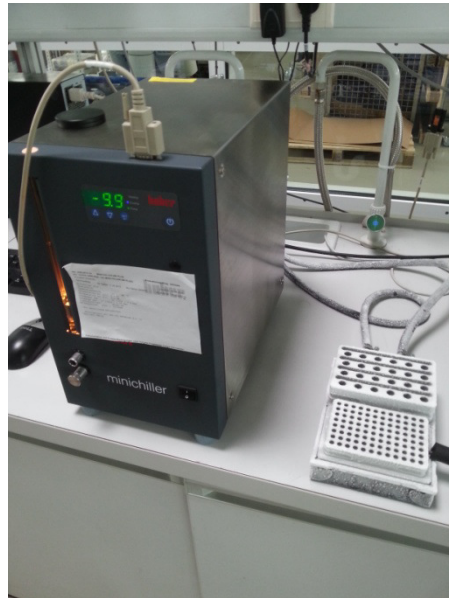


Test setup:

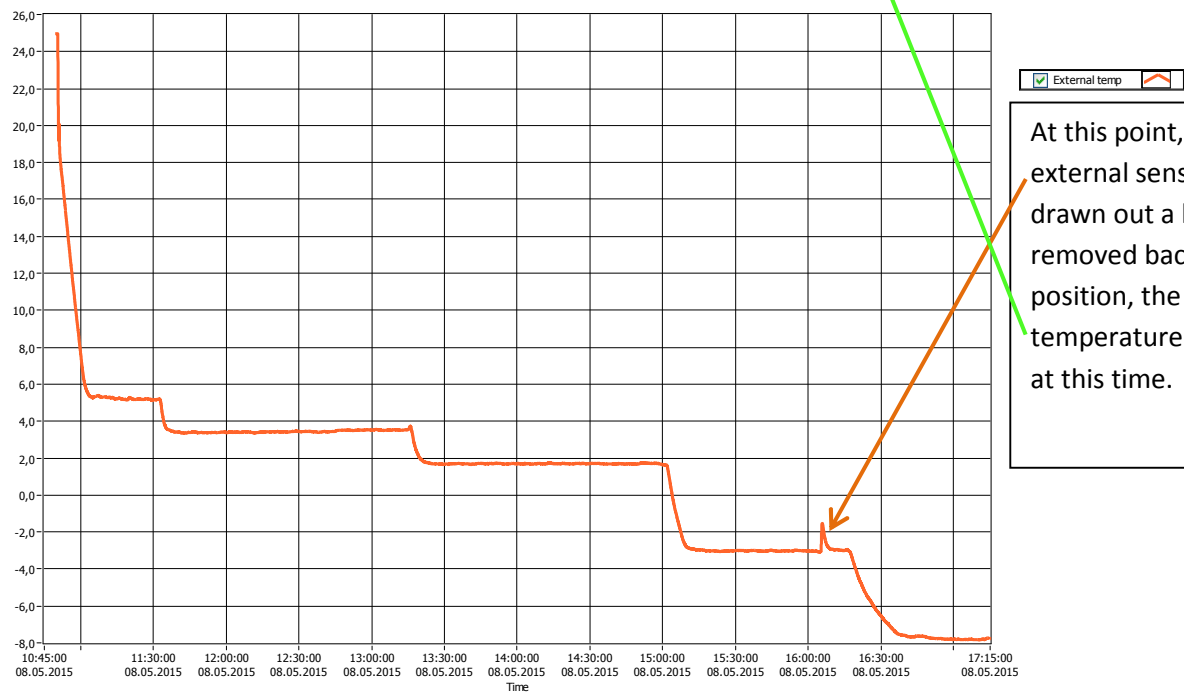
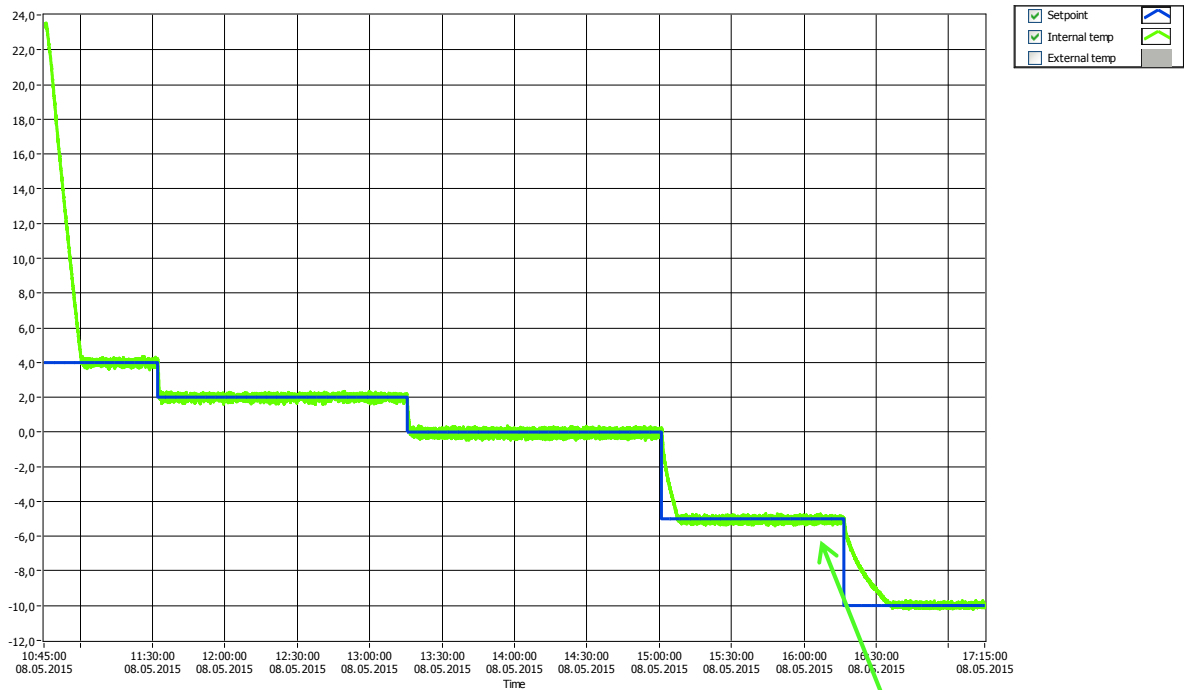
A Minichiller plus was used because of the serial interface and the possibility to record the setpoint and the internal temperature of the Minichiller.



The temperature of the Asynt application was measured with a separate sensor and recorded as well.

Case Study Asynt

First diagram shows the Minichillers performance when cooling down to different setpoints. The Minichiller could easily achieve -10°C .

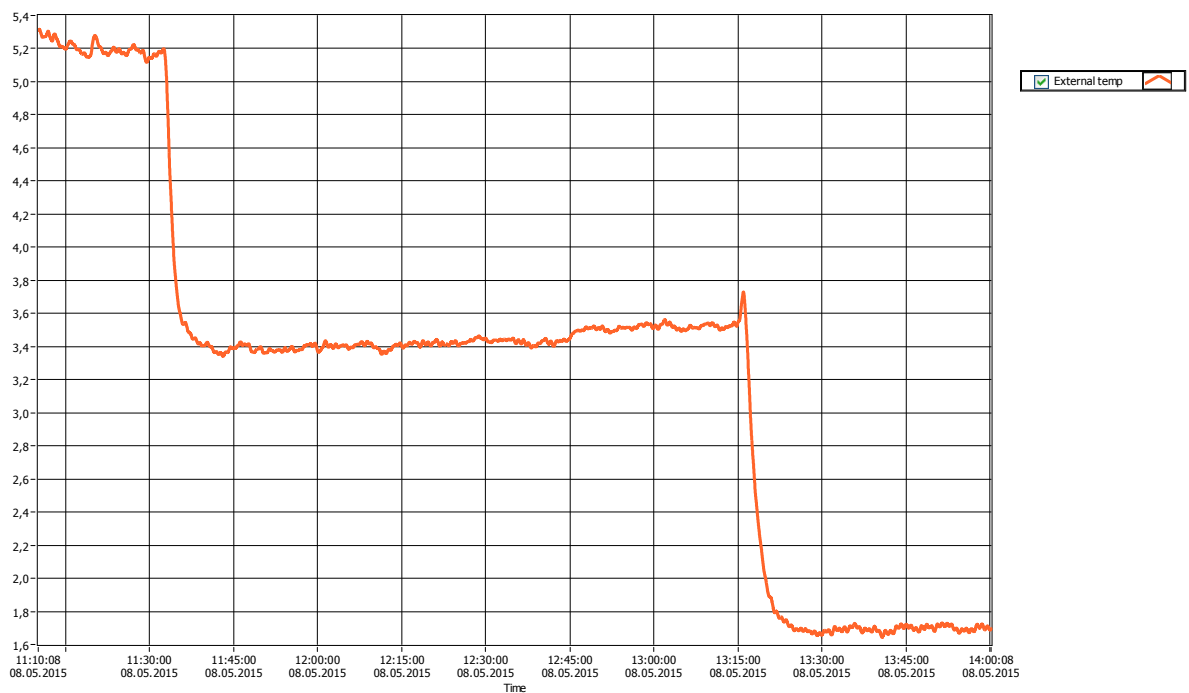
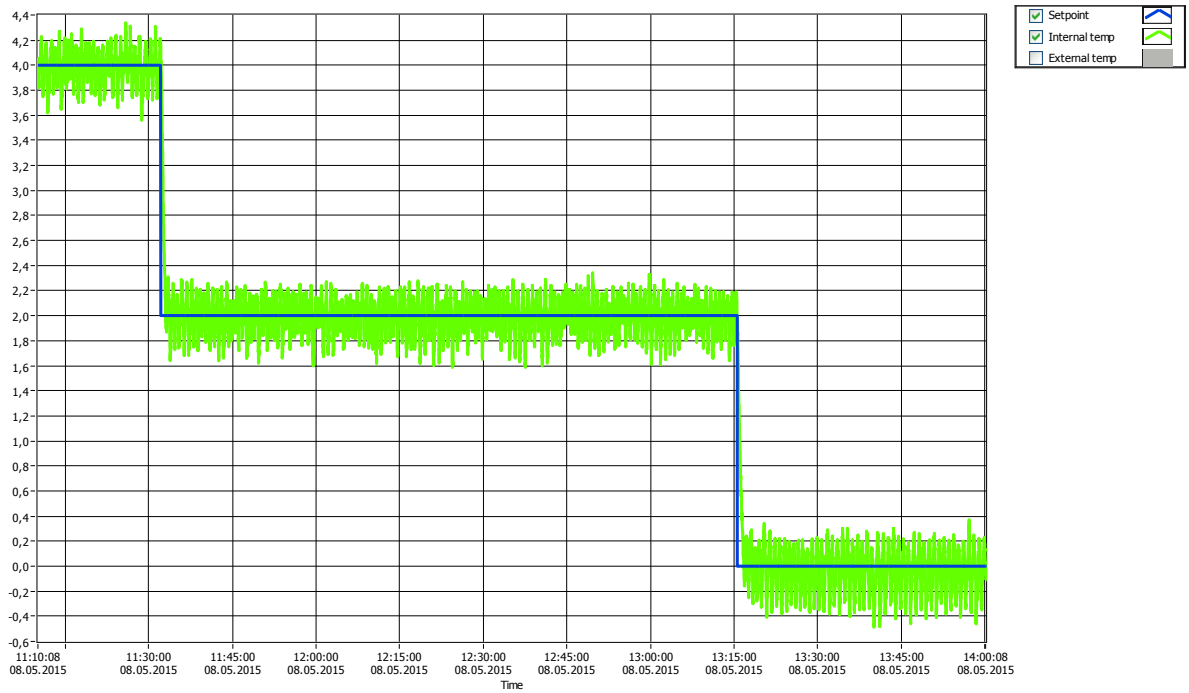


At this point, the external sensor was drawn out a bit and removed back to its position, the Minichillers temperature was steady at this time.

The second diagram shows the temperature of the Asynt application accordingly to the internal fluid temperature of the Minichiller. As could be seen, the temperature of Asynt is always slightly above the Minichillers fluid temperature.

Case Study Asynt

This diagram shows the accuracy of the Minichiller more detailed at three setpoints.



The second diagram shows the corresponding temperature in the Asynt application. As only the internal temperature of the Minichiller is controlled and the external temperature is only measured, a slightly drift could be seen, which comes from influences like ambient temperature and air flow.

ALF