

Results from second test runs with a compact, low price, commercial CO₂ cooling unit

Monday, 17 May 2021 18:00 (20 minutes)

As first results with customized commercial CO₂ cooling unit have been promising, we started further test runs with a changed test setup to investigate operational behavior in detail. We inserted capillary heaters to achieve a two phase CO₂ cooling environment more similar to the Belle II PXD and upgraded the control structure. We focused on temperature stability, response to load changes, and stability with 'active subcooling'. Results of these test runs will be reported and possible applications of such commercial chillers will be discussed.

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