## Towards a more convenient and sustainable solution for yoghurt distribution and presentation

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## The Yoghurt Tap

Together with Grensland Zuivel, a company specialised in a range of dairy products, the opportunity arose to develop a yoghurt tap for the presentation of their yoghurt in the professional food industry. Using the researched findings from a Wageningen University & Research team, WUR, done in 2022 to improve sustainability in the downstream supply chain of yoghurt at Grensland Zuivel. The yoghurt tap should condemn with the intuitiveness of the user and convenience of the overall system. In addition, the tap should increase the hygiene in the yoghurt presentation. Thus, what is the most user friendly and sustainable design for a yoghurt tap suitable for the food industry, that enables consumers to intuitively tap yoghurt and maintains customer satisfaction? This question has been fulfilled by a set of designs and testing phase leading to the final concept of the yoghurt tap. It can be implemented in several environments from a set target group such as open buffets from Hotel van Der Valk.

The developed yoghurt tap in figure 1 functions with the refillable yoghurt BIB bags. The tap functions mechanically and off-grid, so the yoghurt is kept at a temperature below 6 degrees Celsius by the implementation of cool elements behind the pressure plate. This pressure plate is connected to a gas spring to exert force on the yoghurt bag for the dispensing. The lever on top extents to close the tap with ease because of this lever principle. Figure 2 gives a more elaborate instruction on the refill process of the tap. The user can put their bowl underneath the nozzle and by pushing the dispensing lever, their desired amount of yoghurt flows into their bowl. In case any spillage occurs, a drip tray is added that can be removed for sanitation.

The outer face of the developed tap has been made generic to fit many different environments. However, this appearance can be interchanged by different colour coatings and wood tints. In conclusion, the yoghurt tap can be implemented in several environments from a set target group such as open buffets from Hotel van Der Valk.



Figure 1 – The Yoghurt Tap

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Figure 2 – Instructions sticker