



Mixing Times in tanks using CFD

(In collaboration with Tetra Pak and Lund University)



Tetra Pak delivers liquid food processing equipment and a key component in almost all processing lines are tanks. Tetra Pak operates several types of tanks such as buffer tanks, mixing tanks and aseptic tanks. Here we will focus on a 200L vertical tank with a purpose to keep a homogeneous mixture.

In this work we want to get a better understanding if mixing times can be obtained using CFD methodology and understand its accuracy when comparing to measurements. Furthermore, parameters such as agitator speed, agitator position and fluid will be varied and validated with measurements.

For this task you need to have an interest in CFD. You must of course have a good fluid dynamic knowledge and experience in Star-CCM+/Fluent is a plus

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Time needed:	20 weeks
Starting date:	January
Location:	LTH in Lund