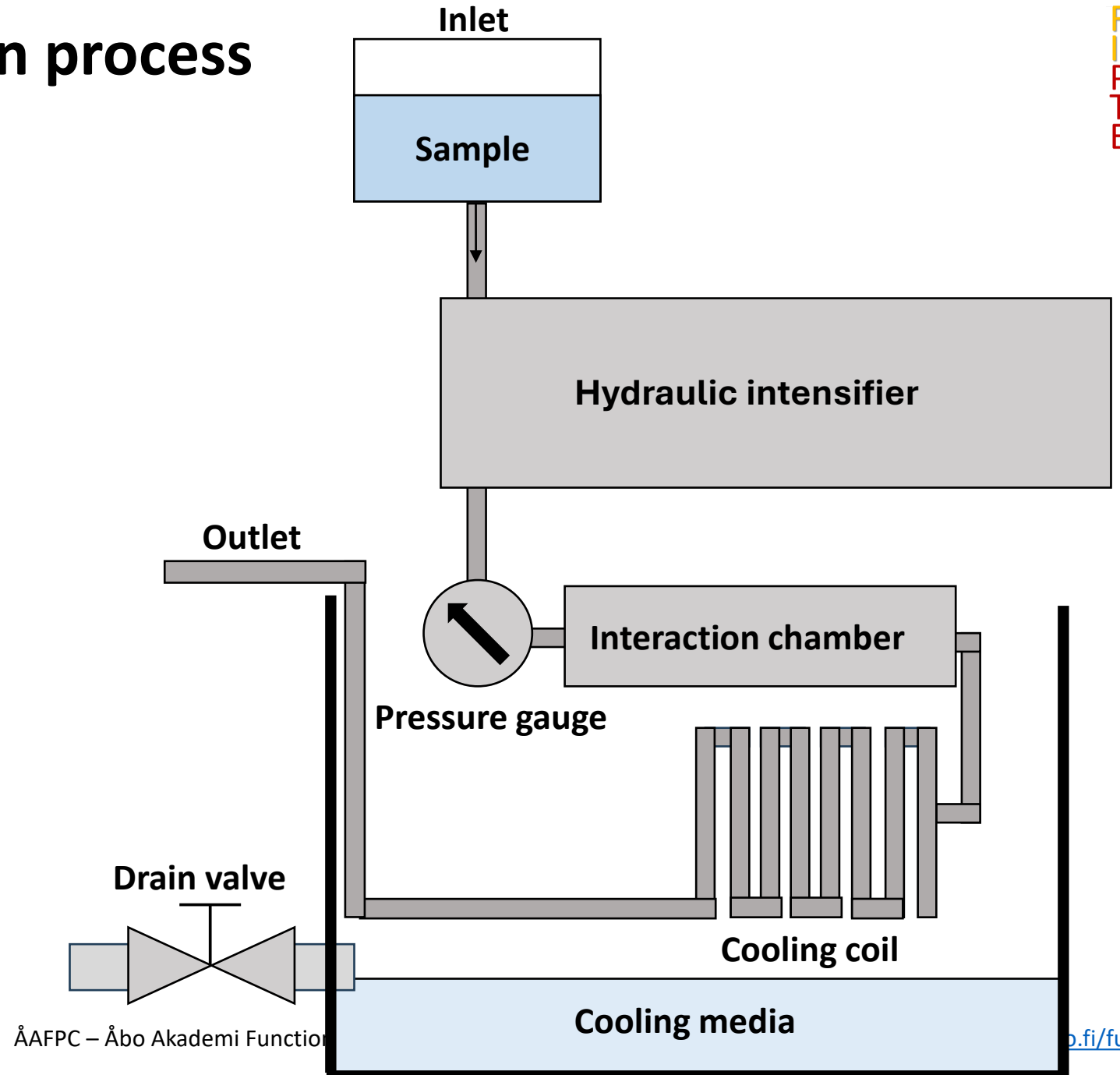


Microfluidizer

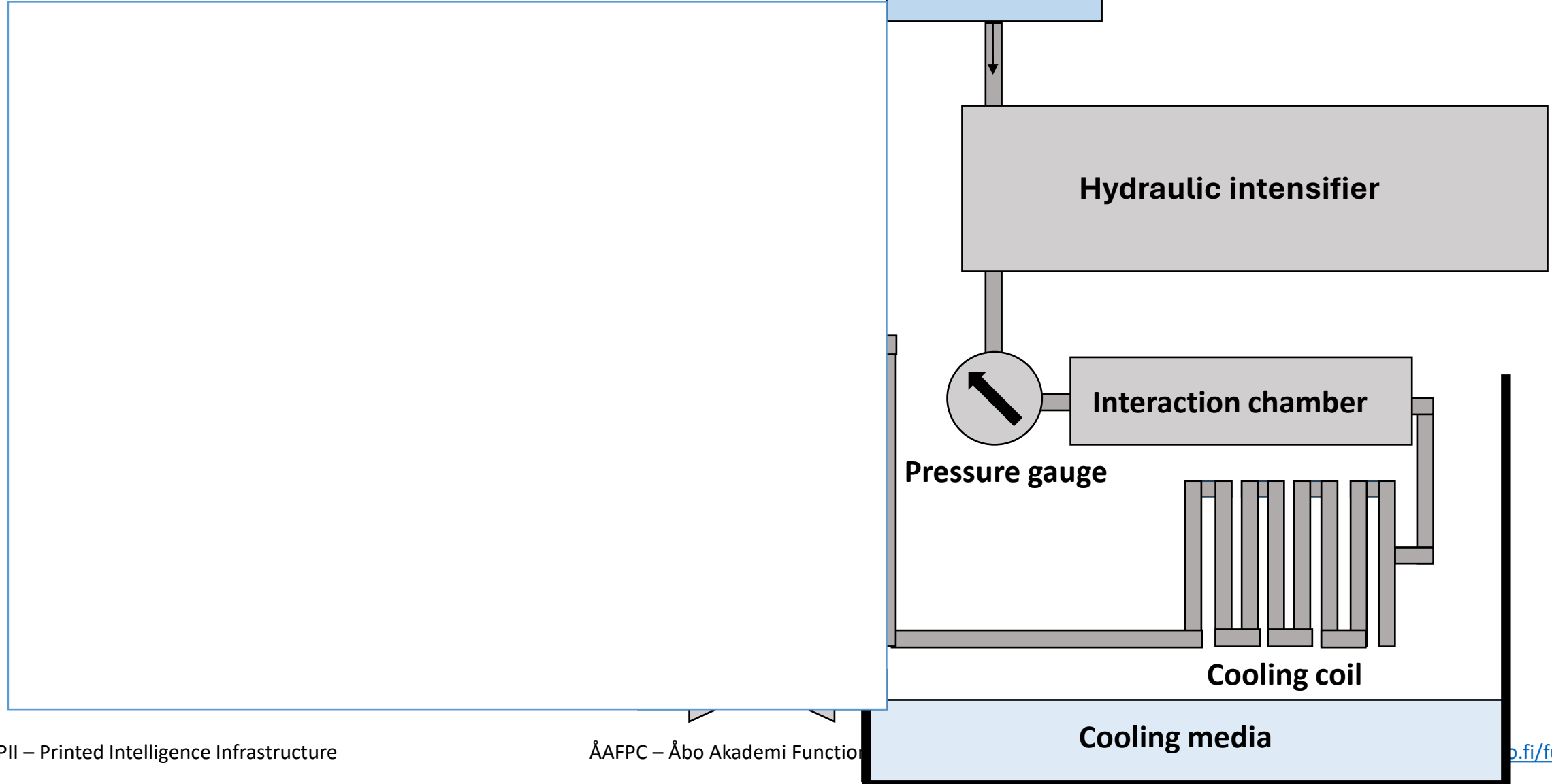
- High-pressure, laboratory-scale homogenizer
- LM20 Microfluidizer®
- Effective processing volume: 50 ml - 1 L
- Pressure control: Up to 2058 bar
- Process speed: 66 ml/min
- Easy to use
- Simple scaleup
- Little maintenance



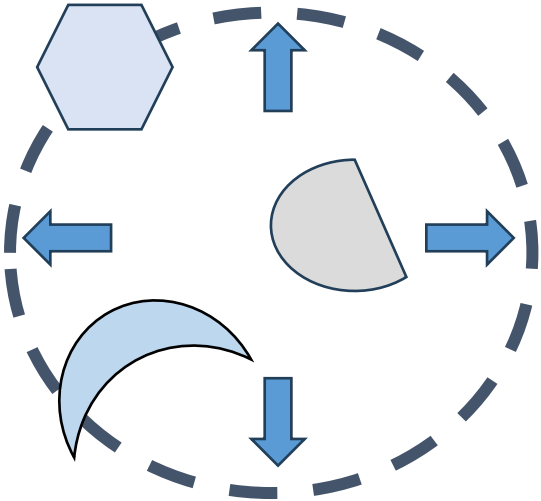
Microfluidization process



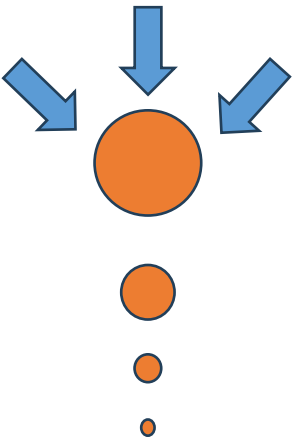
Microfluidization process



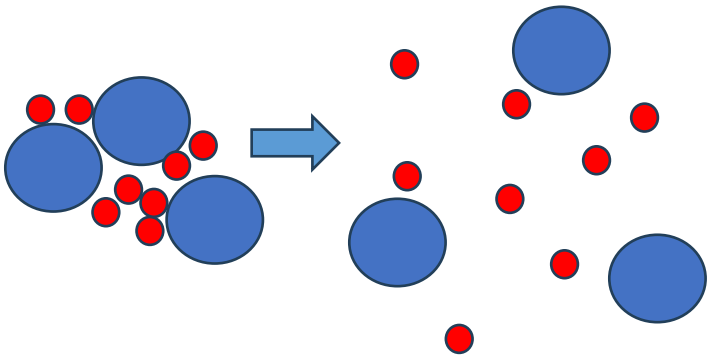
Applications with Z-chamber



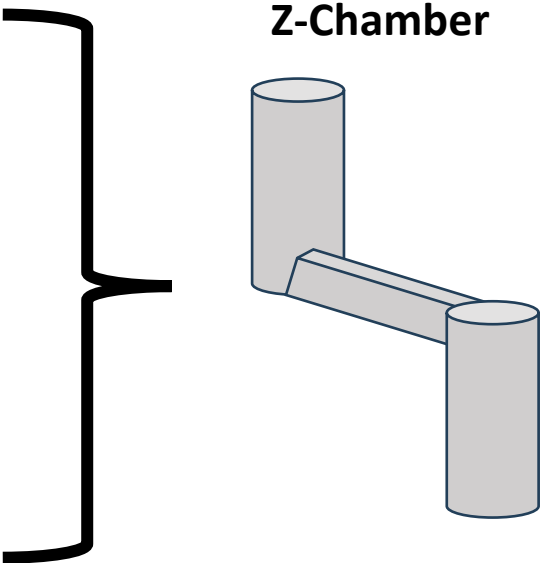
Cell disruption



Particle size reduction



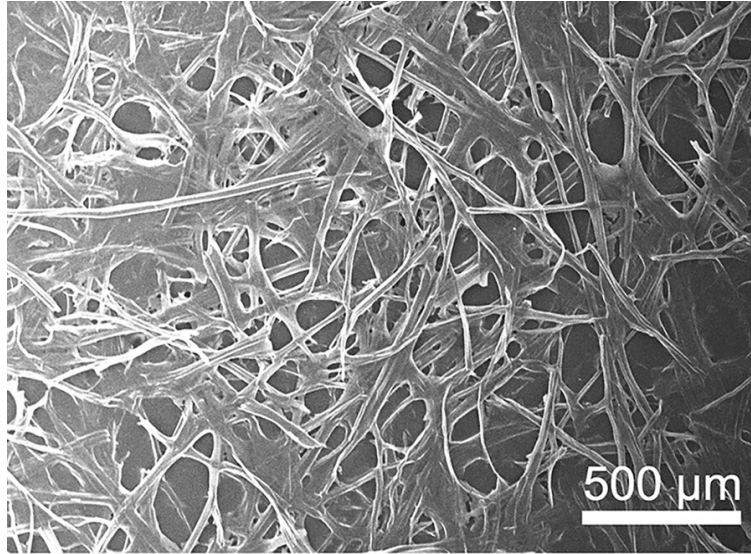
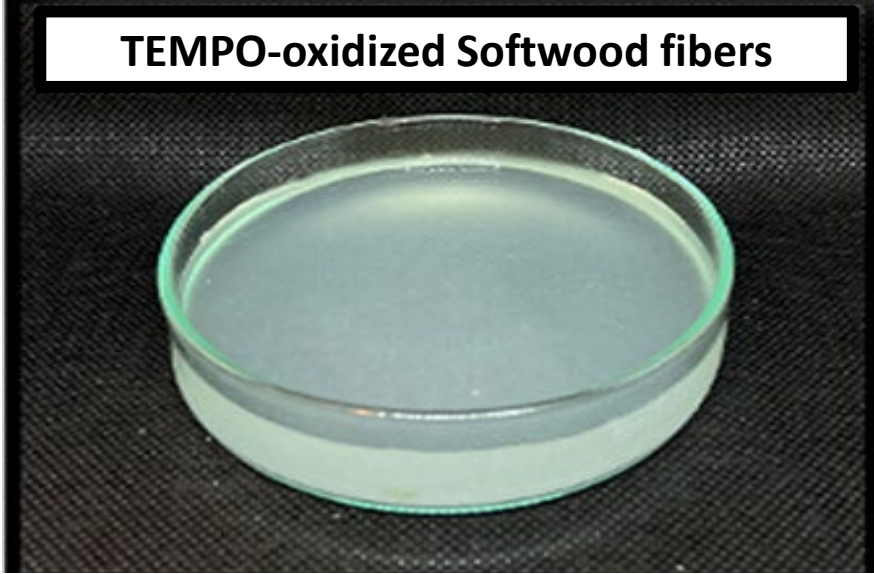
Deagglomeration



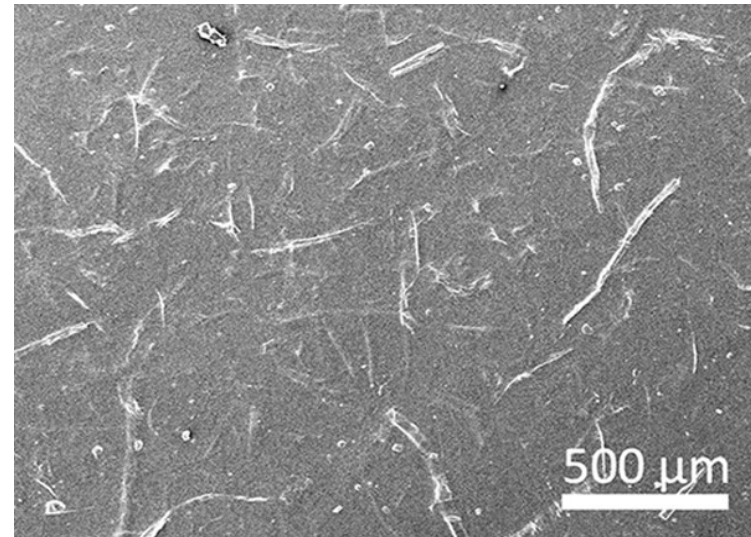
Z-Chamber

Applications with Z-chamber

TEMPO-oxidized Softwood fibers



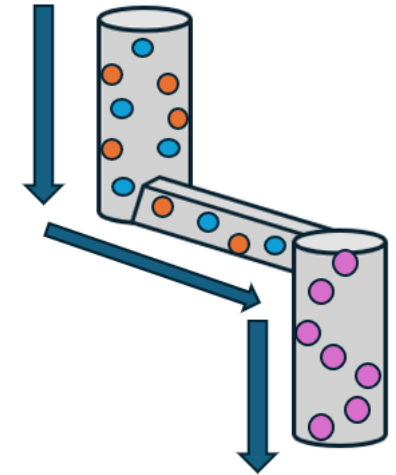
Softwood cellulose nanofibrils



doi: 10.1021/acs.biomac.3c00596

Fiber content at 0.75 wt.%

After one pass at 1000 bar



Microfluidizer

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