



Targeted and contextual strategies to manage demand and meet bespoke needs

Water Efficiency in Buildings 2013



Agenda

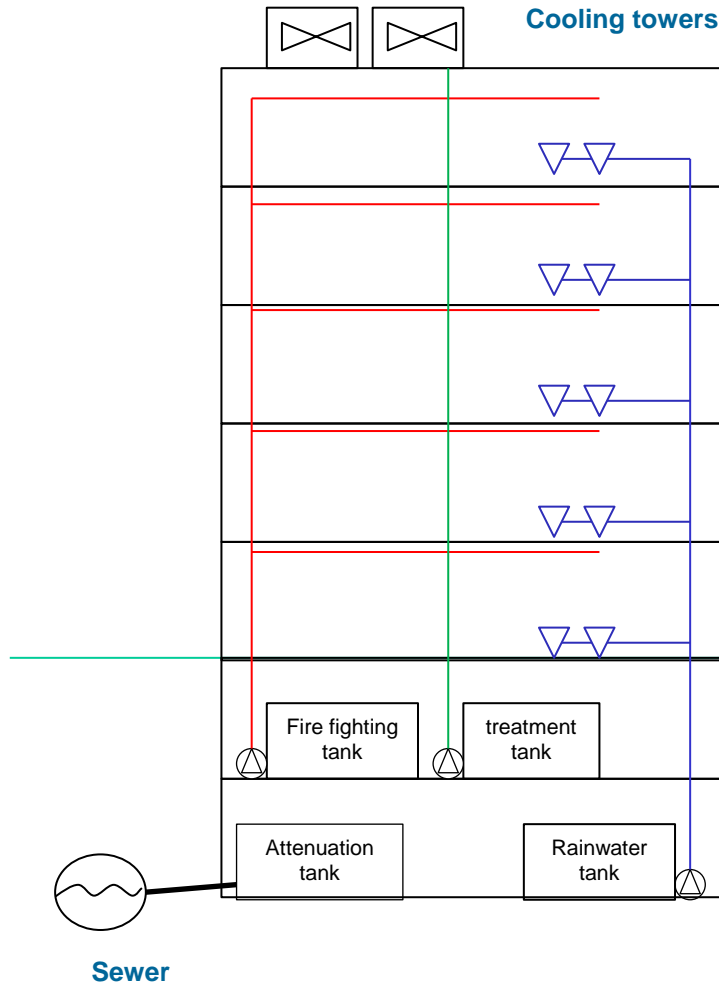
1. Conventional non potable water management in non domestic buildings
2. Concepts of effective non potable water management
3. Holistic non potable water management



1. Conventional non potable water management in non domestic buildings



Conventional non potable water management



Current non potable water demand:

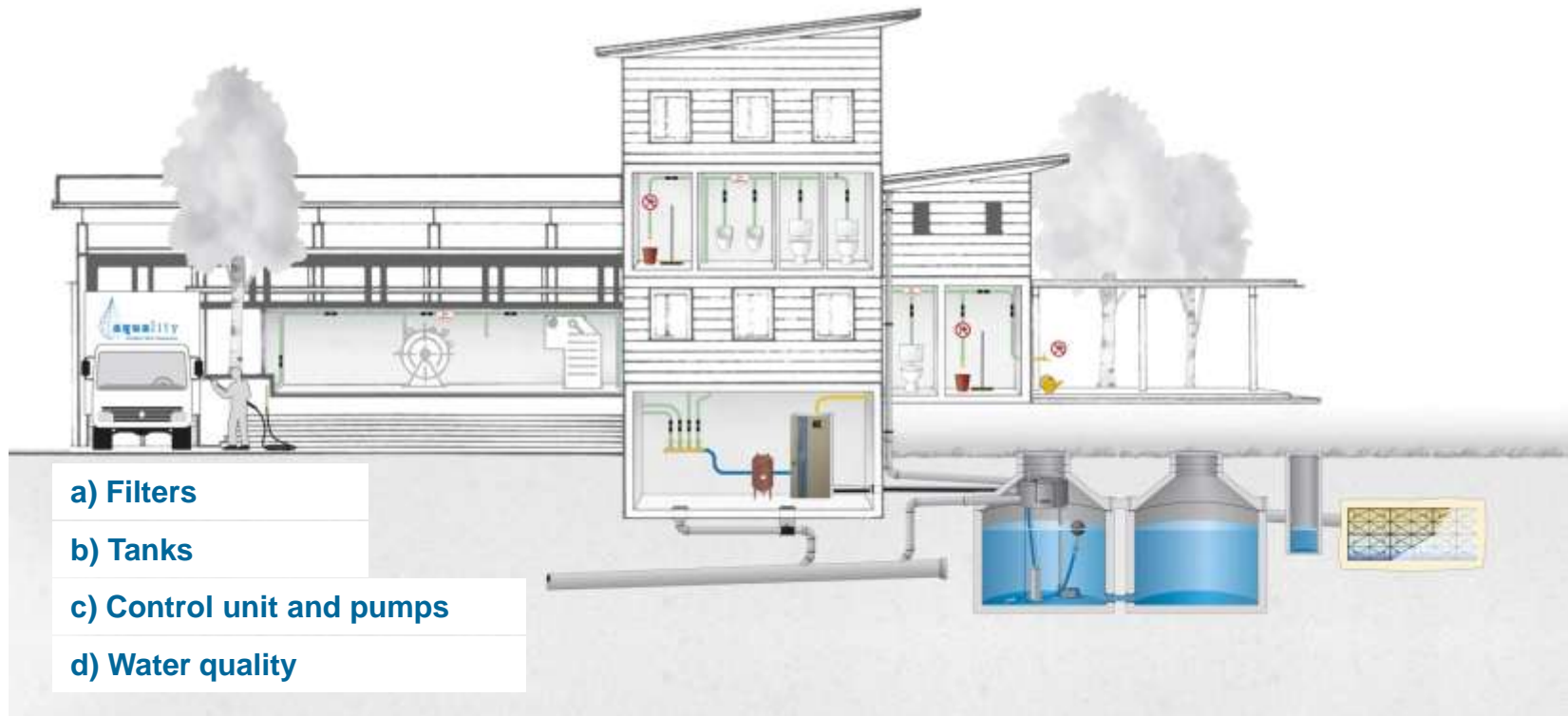
- WCs & urinals
 - Fire fighting
 - Cooling
 - Vehicle washing
 - Irrigation
- Etc.

Other water management:

- Rainwater and sewage discharge
 - Stormwater control
- Etc.

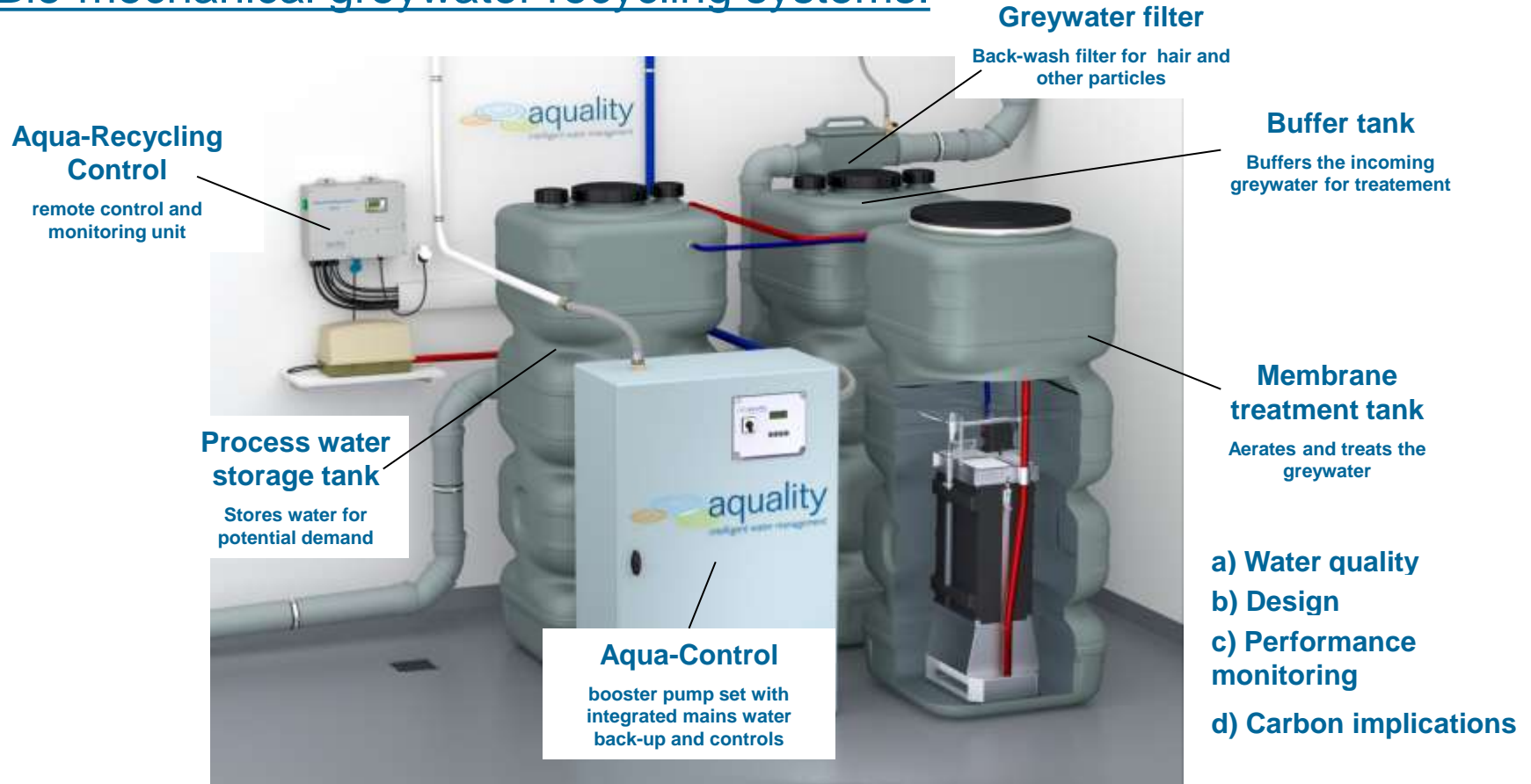


Rainwater harvesting system



Greywater recycling in detail

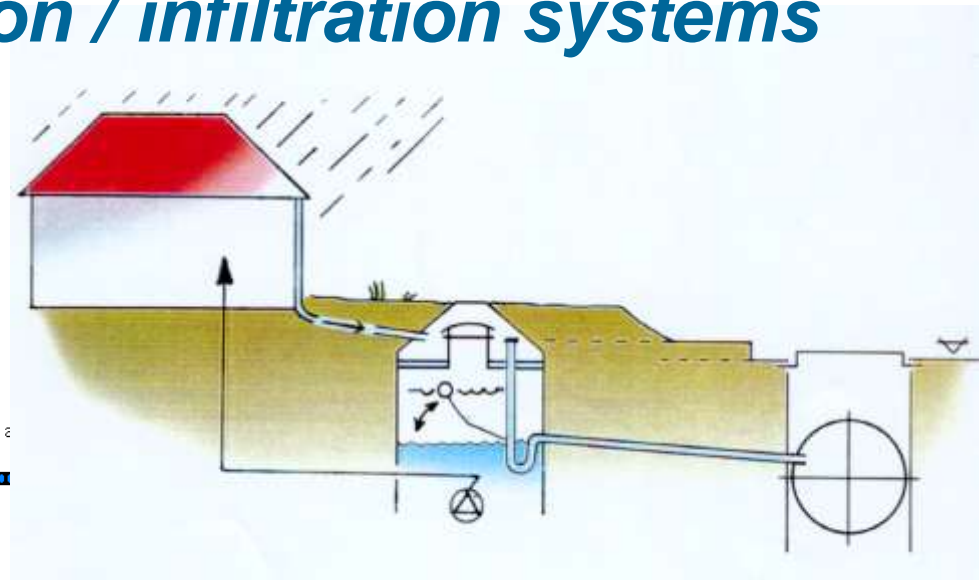
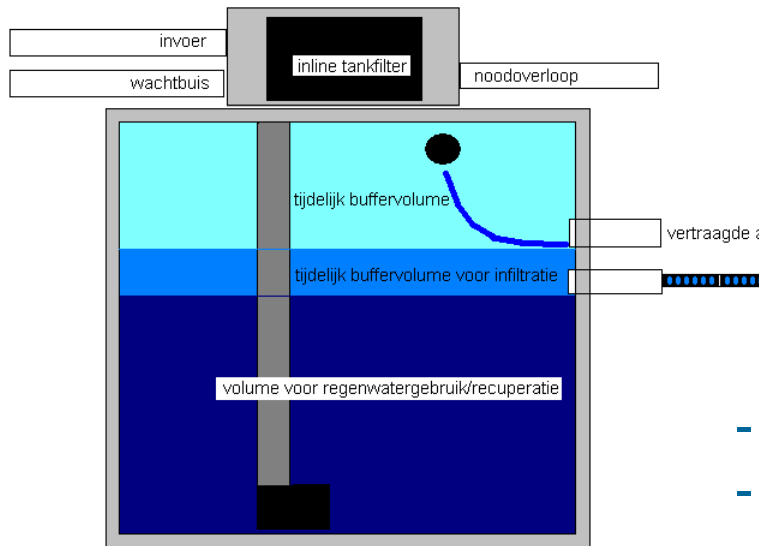
Bio-mechanical greywater recycling systems:



2. Concepts of effective non potable water management

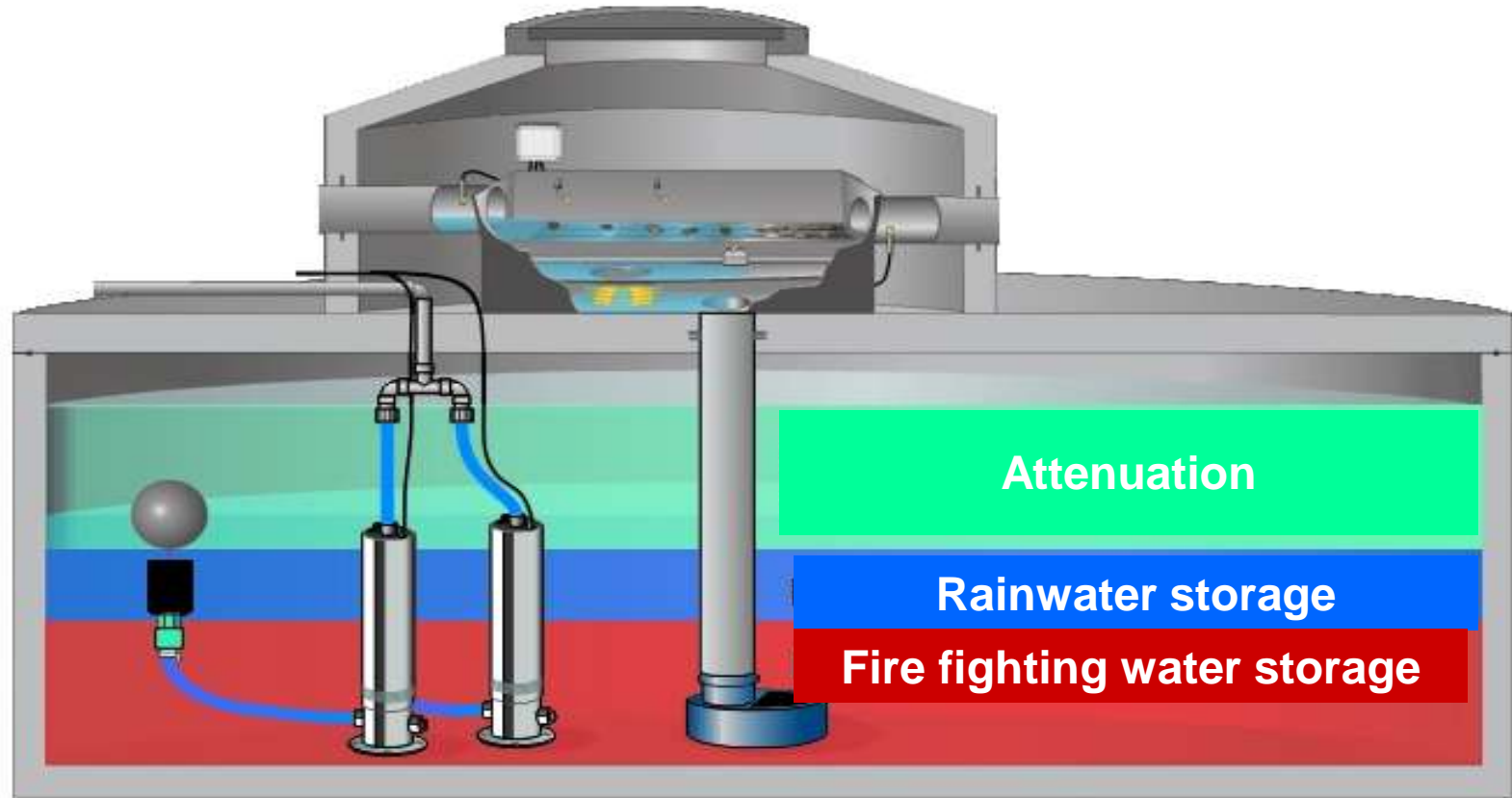


Obligation for combined rainwater harvesting / attenuation / infiltration systems in Belgium



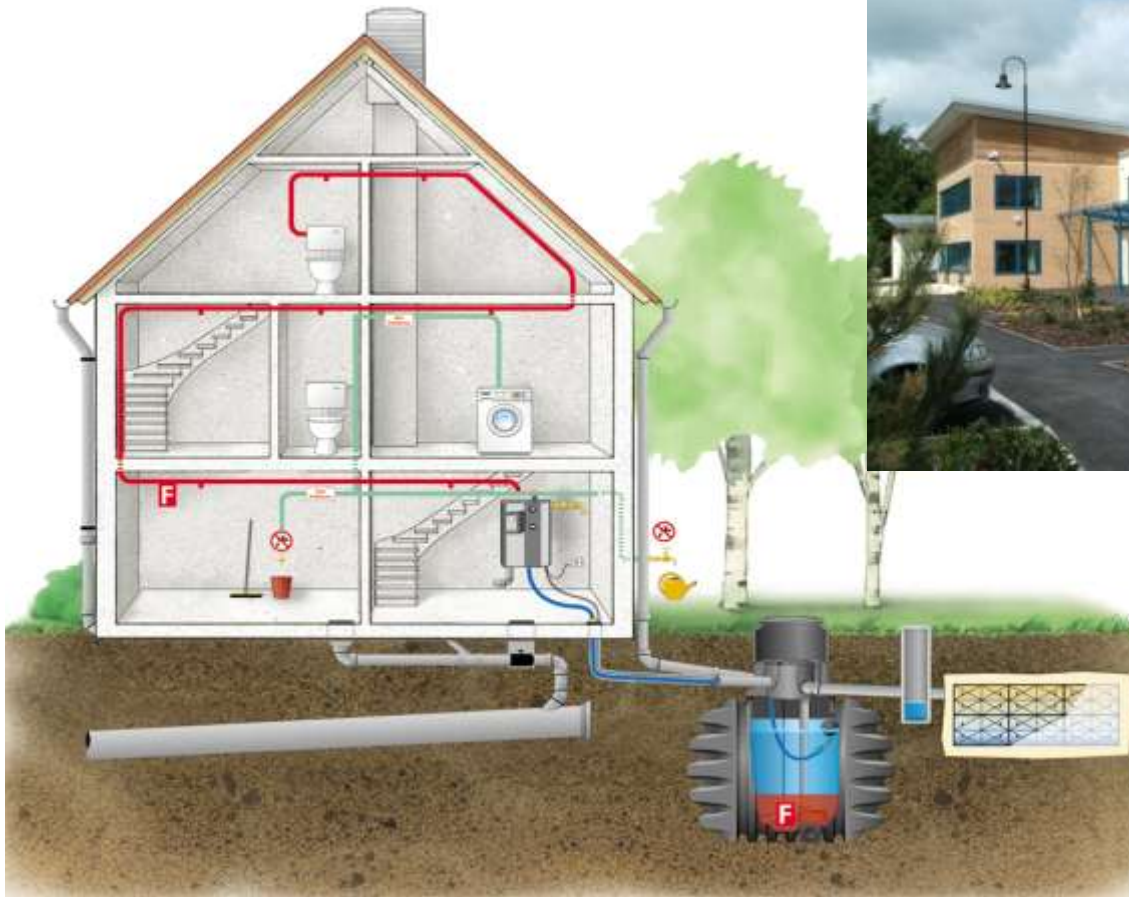
- obligation for new builds
- all types of buildings
- 3-staged discharge:
 - 1) rainwater harvesting
 - 2) rainwater infiltration
 - 3) rainwater attenuation

One storage for different uses



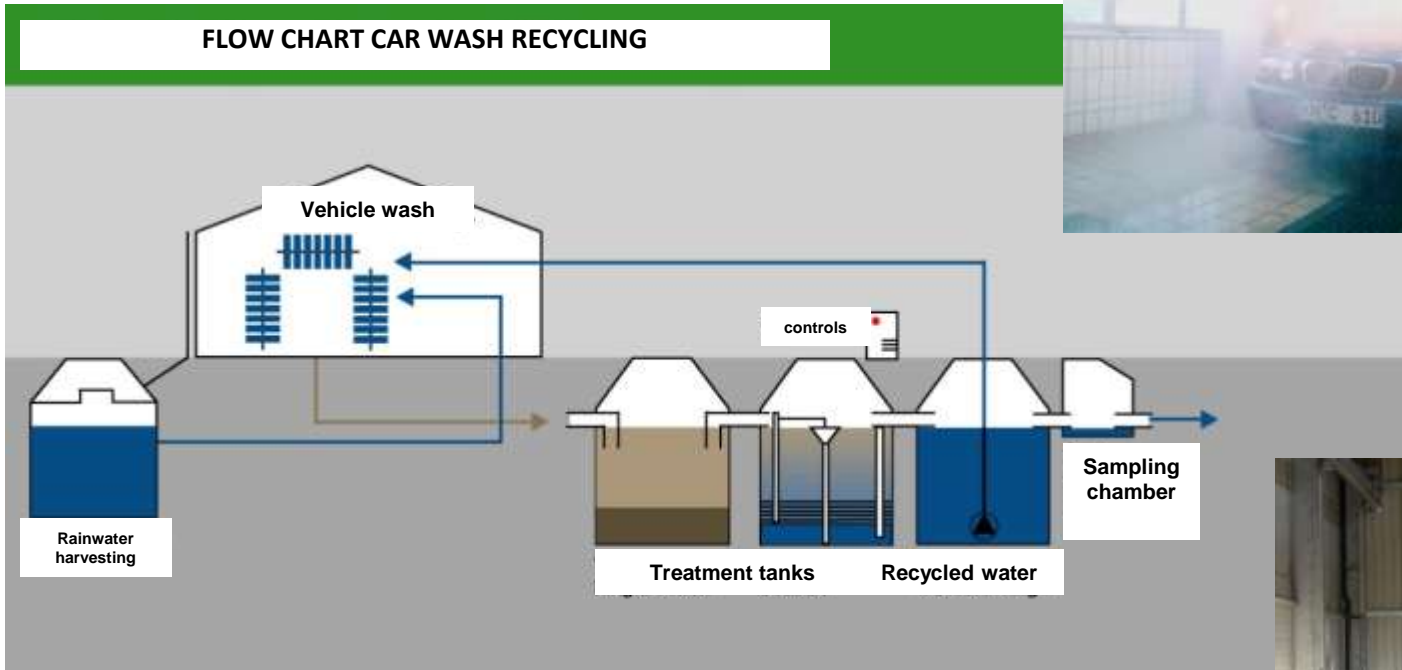
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Fire sprinkler infrastructure use



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Vehicle wash water recycling

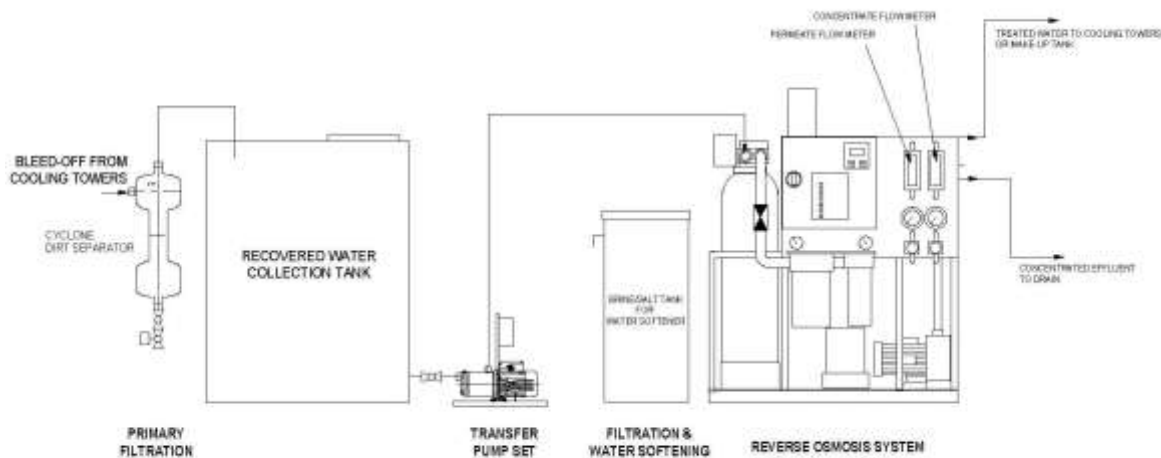


Rainwater as top-up due to softness



Cooling tower water recycling and re-use

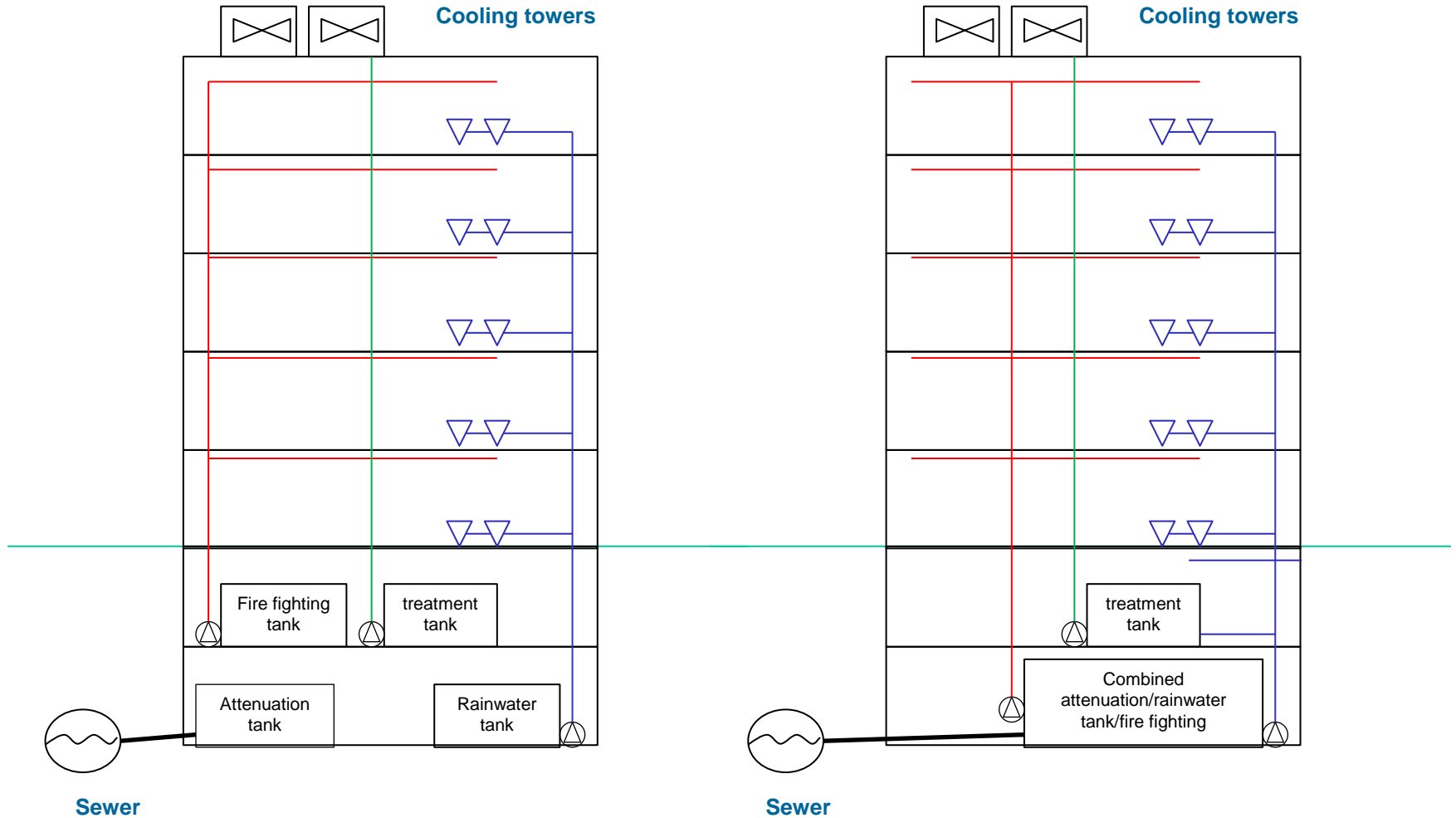
- Bleed off water recycling
- Bleed off use for non potable applications
- Rainwater in cooling tower top-up reduces salt consumption



3. Holistic non potable water management



Conventional vs holistic water management



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Thank you for your attention

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