

The background of the slide is a dark, grayscale image of a building facade with large windows. Overlaid on this background are several white, stylized water droplet icons of varying sizes, scattered across the scene. A prominent green rectangular box is centered on the slide, containing the main title text.

# **New innovative, sustainable & cost effective CIP-Cleaning methodology**

An orange rectangular box is positioned in the lower-middle section of the slide. It contains two lines of white text: 'EFTCO MEETING' and '30 May 2024, Brussels'.

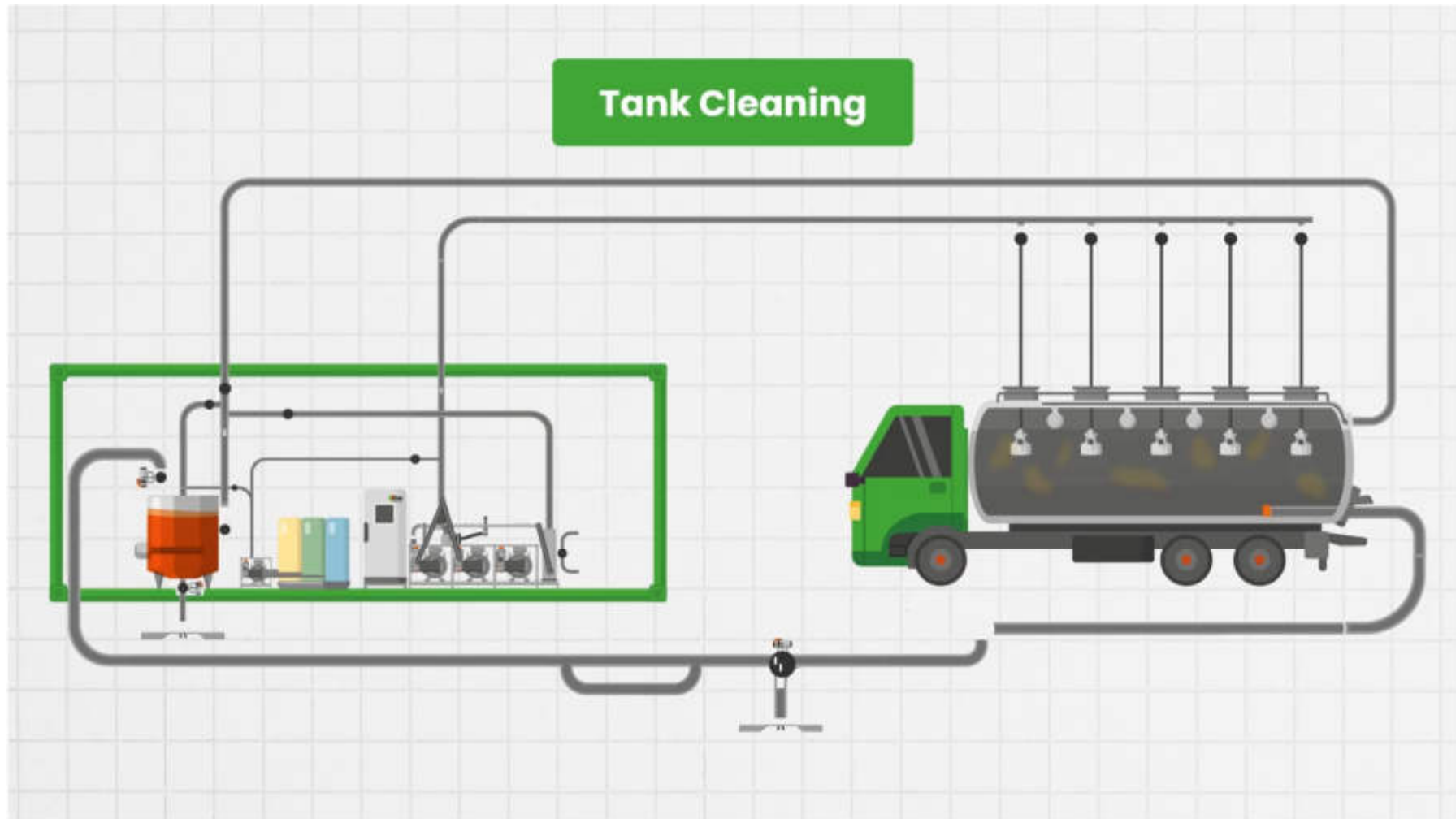
**EFTCO MEETING**  
**30 May 2024, Brussels**

## Agenda

- Introduction CTW Cleaning Systems
- New innovative, sustainable & cost effective CIP-Cleaning methodology
- Cleaning program in 5 steps
- Advantages
- Cases/projects
- Questions



# Introduction CTW Cleaning Systems

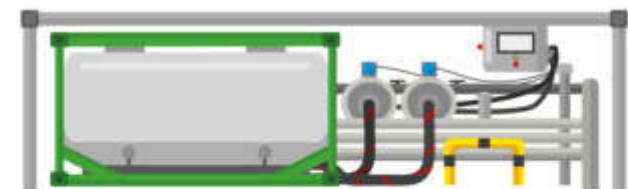
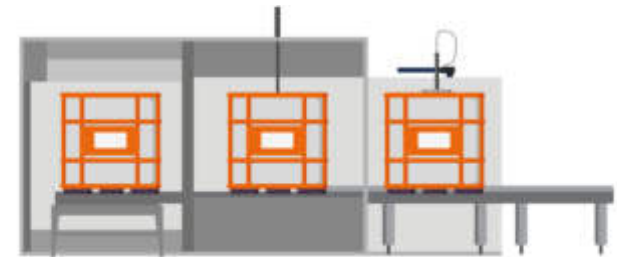
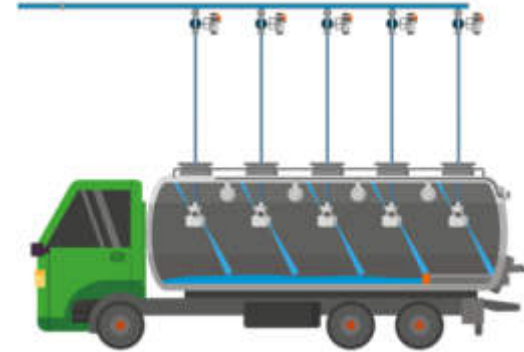


## Introduction CTW Cleaning Systems

CTW Cleaning Systems is a first and second generation family business, located in Turnhout, Belgium. With over 40 years of experience, CTW Cleaning systems was established more than 10 years ago, separating from DIBO, specialized in design, supply, installation and renovation of complete cleaning systems.

The activities of CTW Cleaning Systems are classified as follows:

- ▶ Tank Cleaning
- ▶ IBC Cleaning
- ▶ ISO-tank Heating
- ▶ Self Carwash
- ▶ Renewing PLC of outdated installations



## New innovative, sustainable & cost effective CIP-cleaning methodology

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Traditional way of CIP-Cleaning and Tank Cleaning has its advantages and its disadvantages:

- 👉 The major advantage of CIP cleaning is the reuse of water and thus saving on water, energy and cleaning agents
- 👉 The main disadvantage of CIP cleaning is that the pre-cleaning, rinsing and disinfection is done with a high flow of up to 600 liters per minute
- 👉 The disadvantage of traditional tank cleaning installation is that in long cleaning procedures, a lot of hot water and detergent is washed away
- 👉 That is why we have developed this system, which combines the best of both worlds, always choosing the most effective and economical option for all cleaning steps



## Cleaning program in 5 steps

🔗 Preparing the CIP Installation

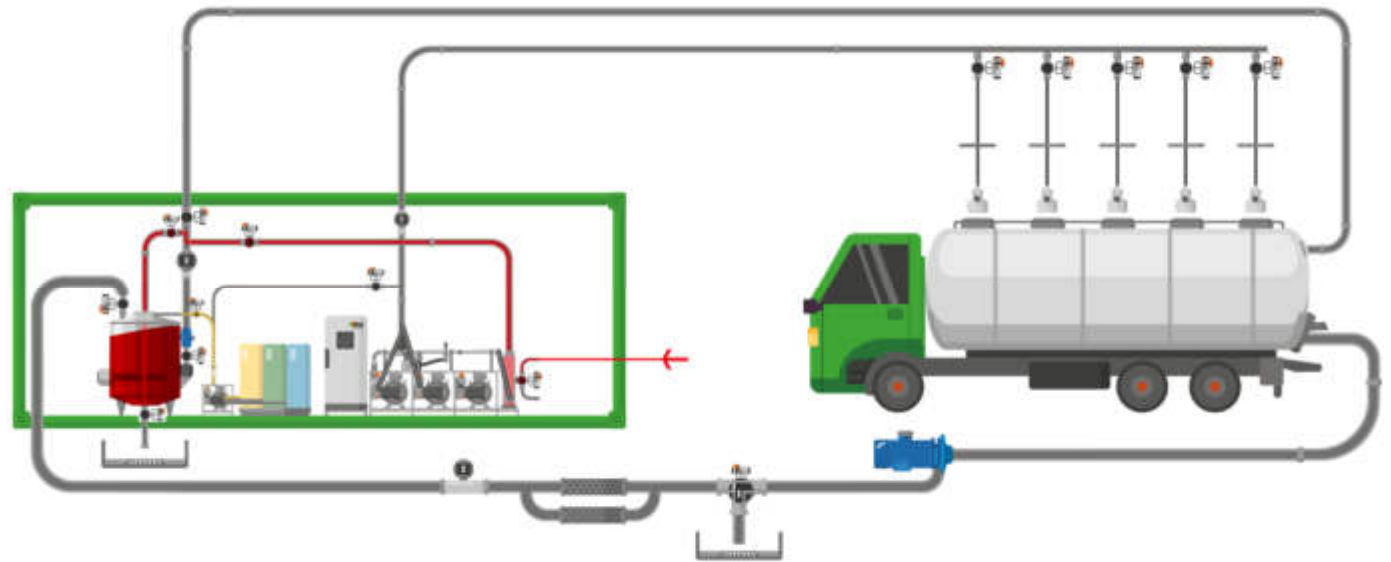
🔗 Step 1 Pre-Cleaning

🔗 Step 2 CIP-Cleaning

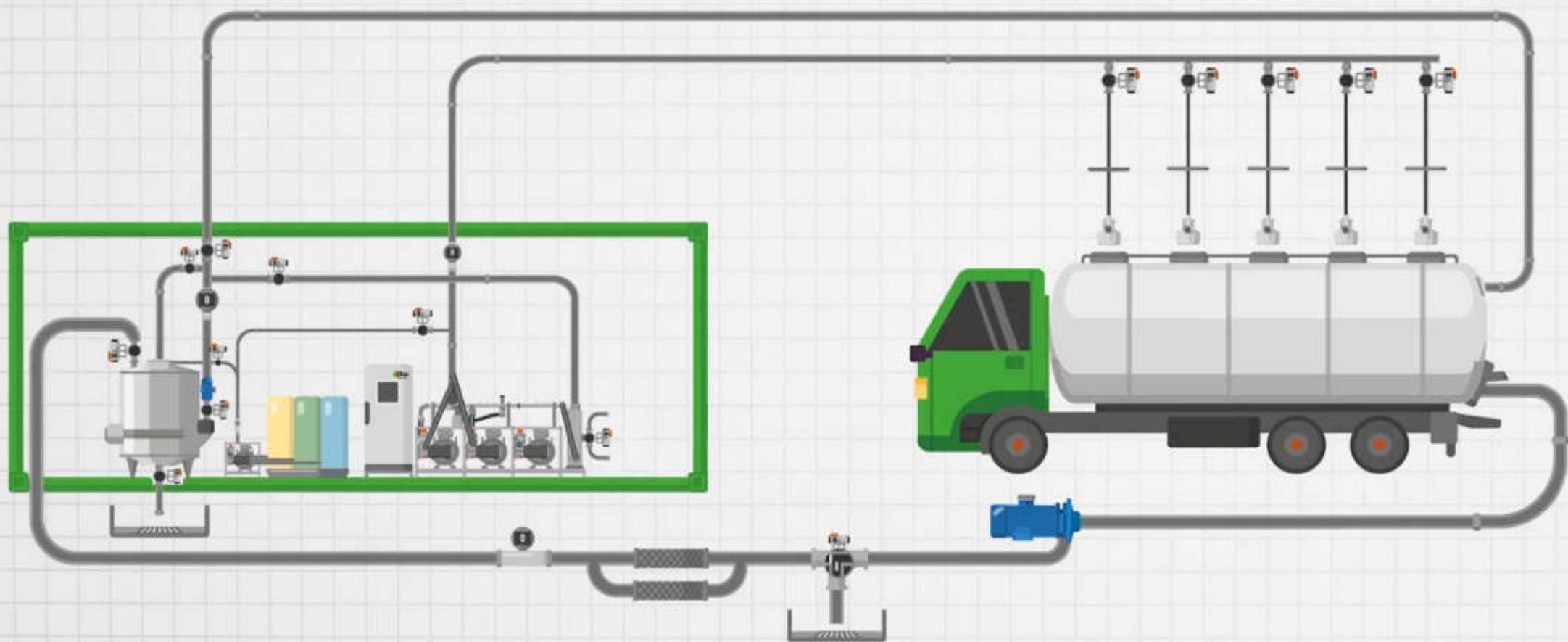
🔗 Step 3 Rinsing

🔗 Step 4 Disinfection tank

🔗 Step 5 Rinsing tank

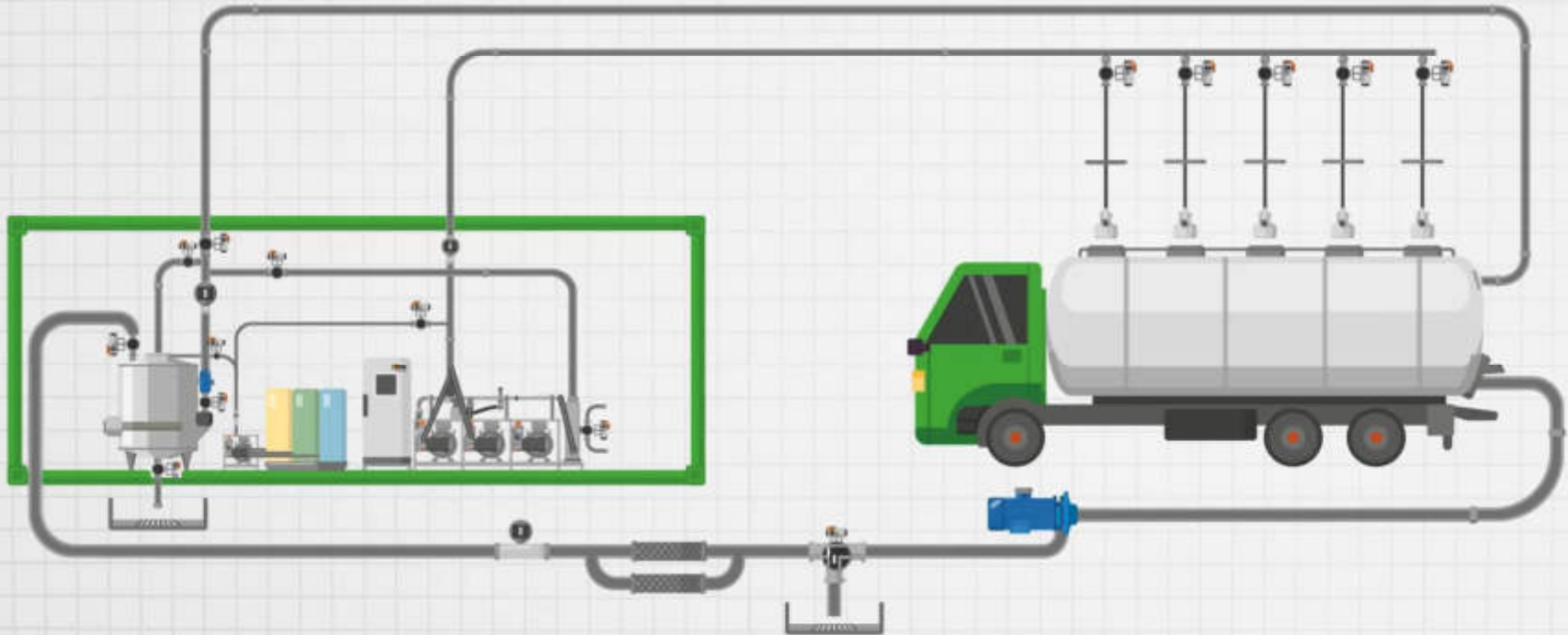


## Fill CIP tank



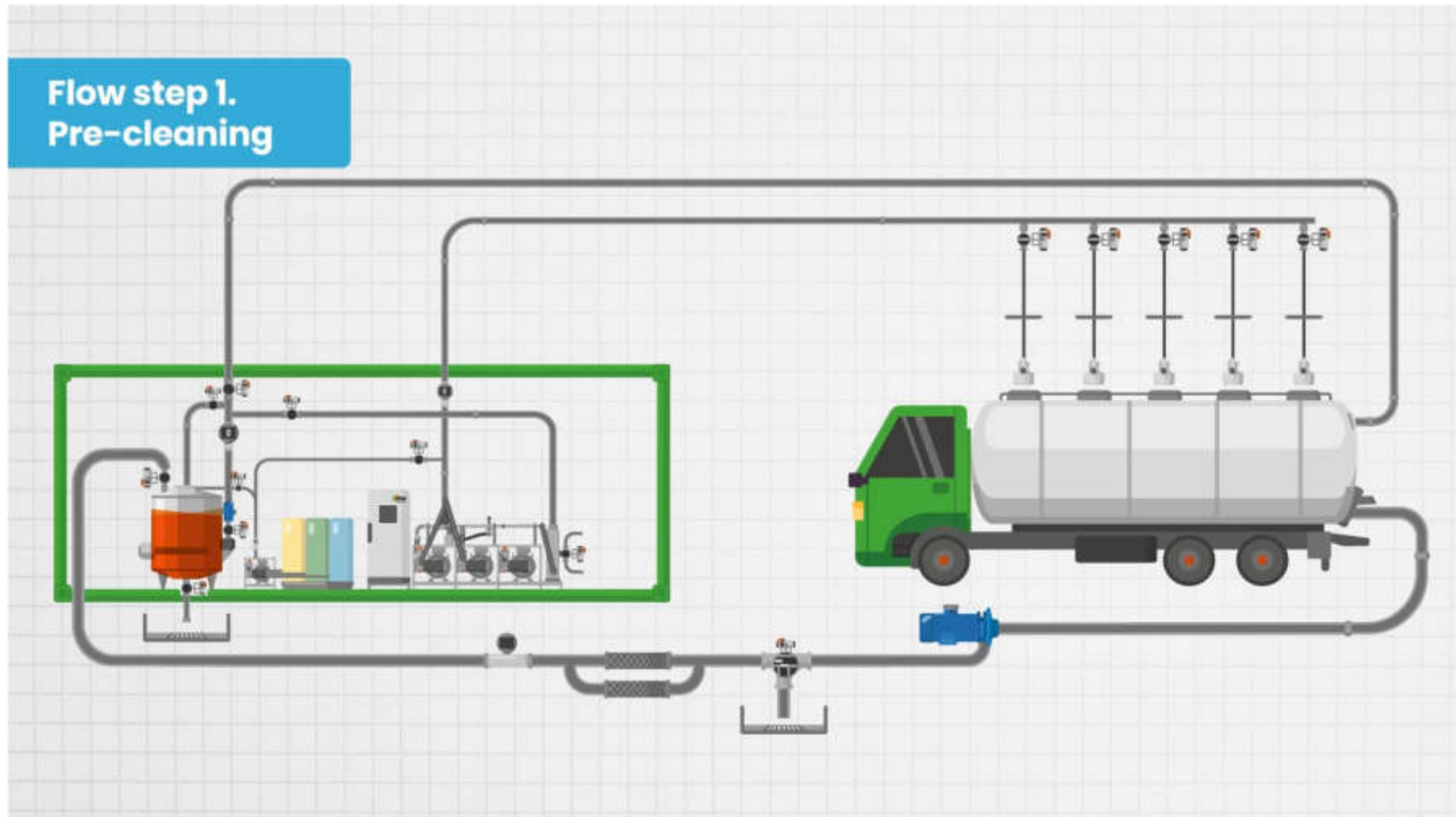
# Preparing the CIP Installation

Fill CIP tank



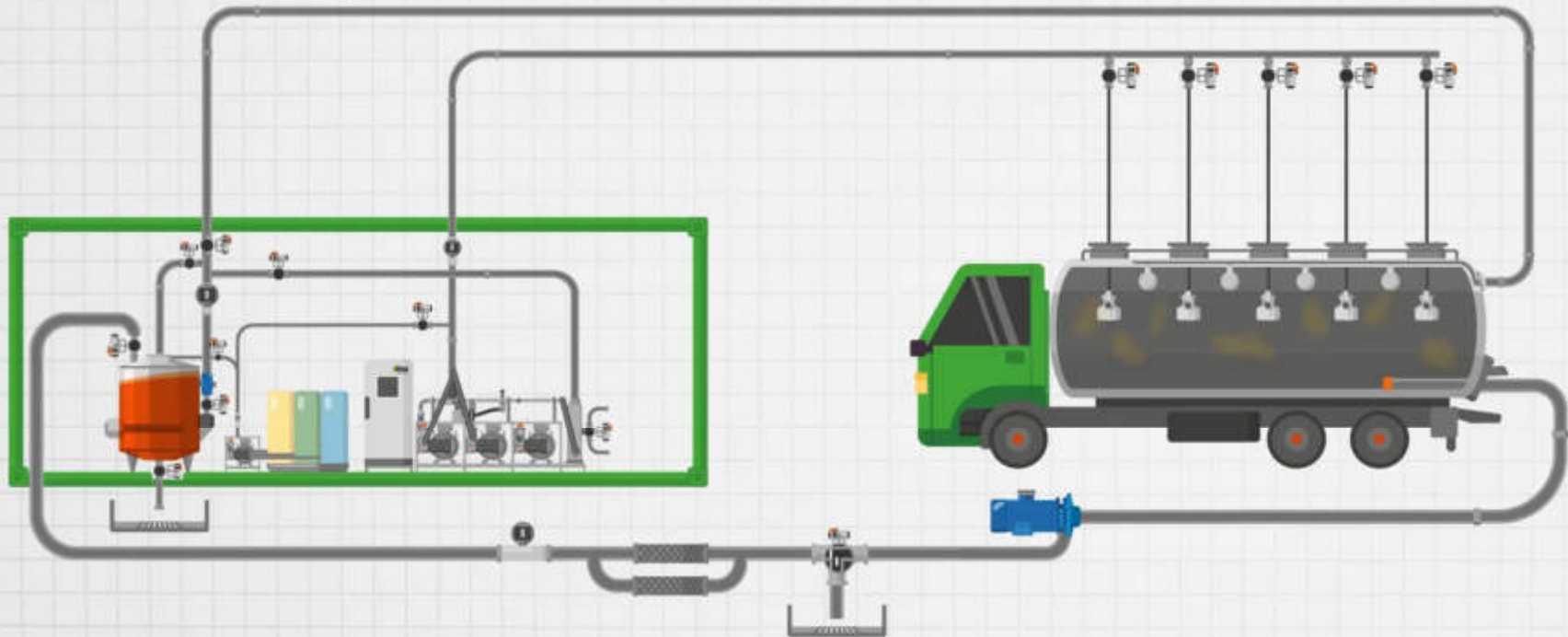


# Step 1 Pre-Cleaning

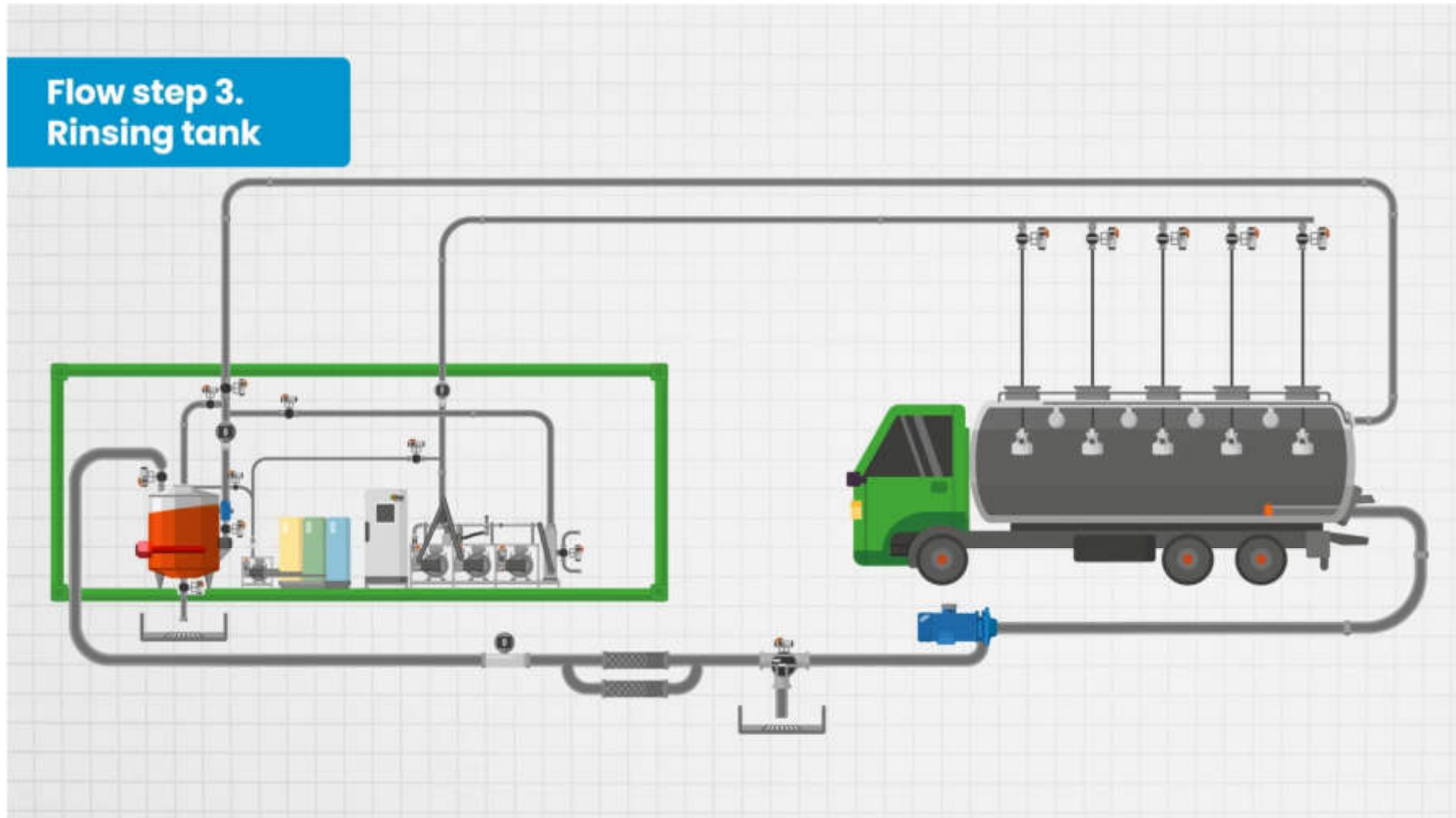


## Step 2 CIP-Cleaning

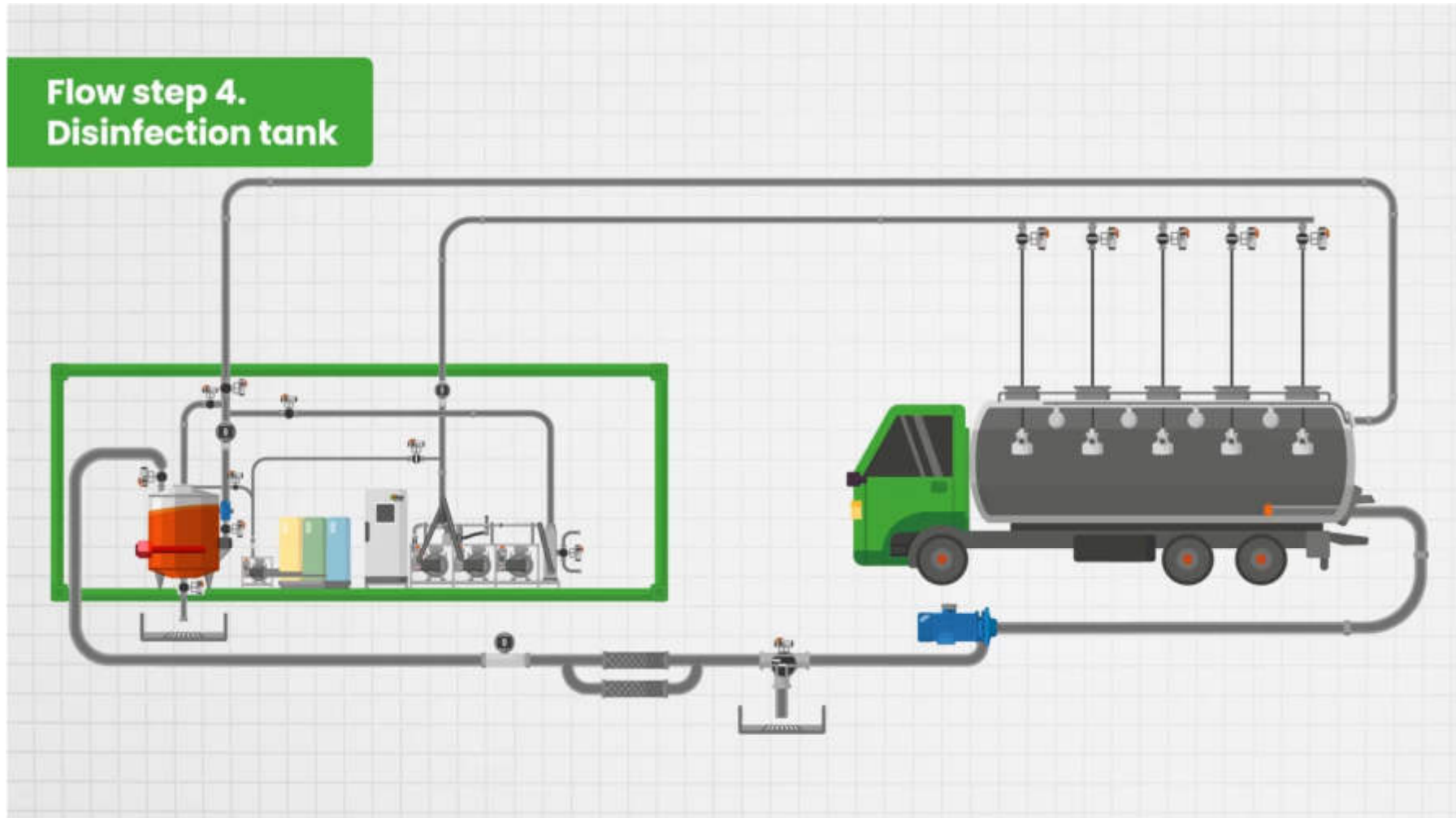
Flow step 2.  
CIP-cleaning



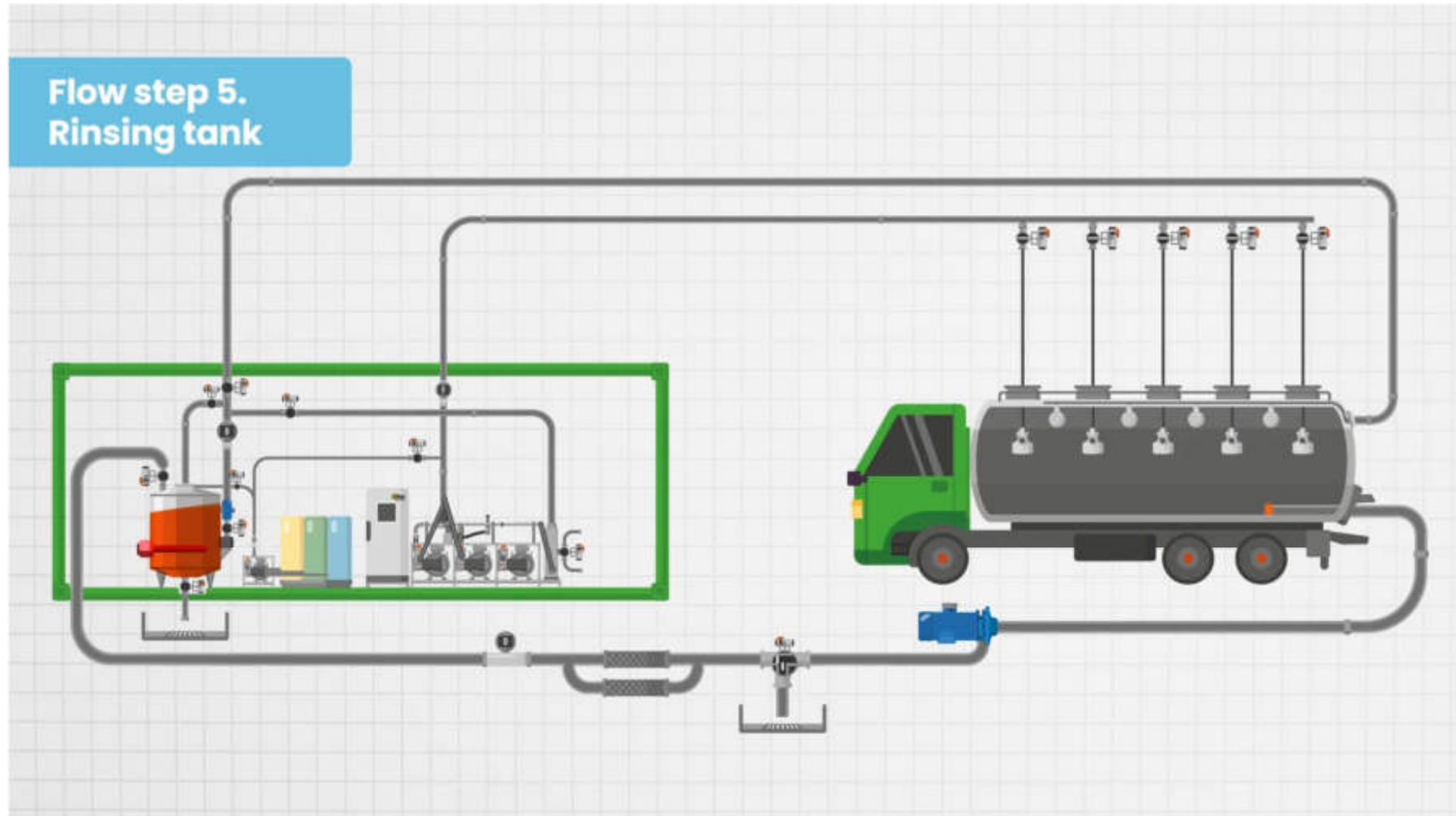
## Step 3 Rinsing



## Step 4 Disinfection tank

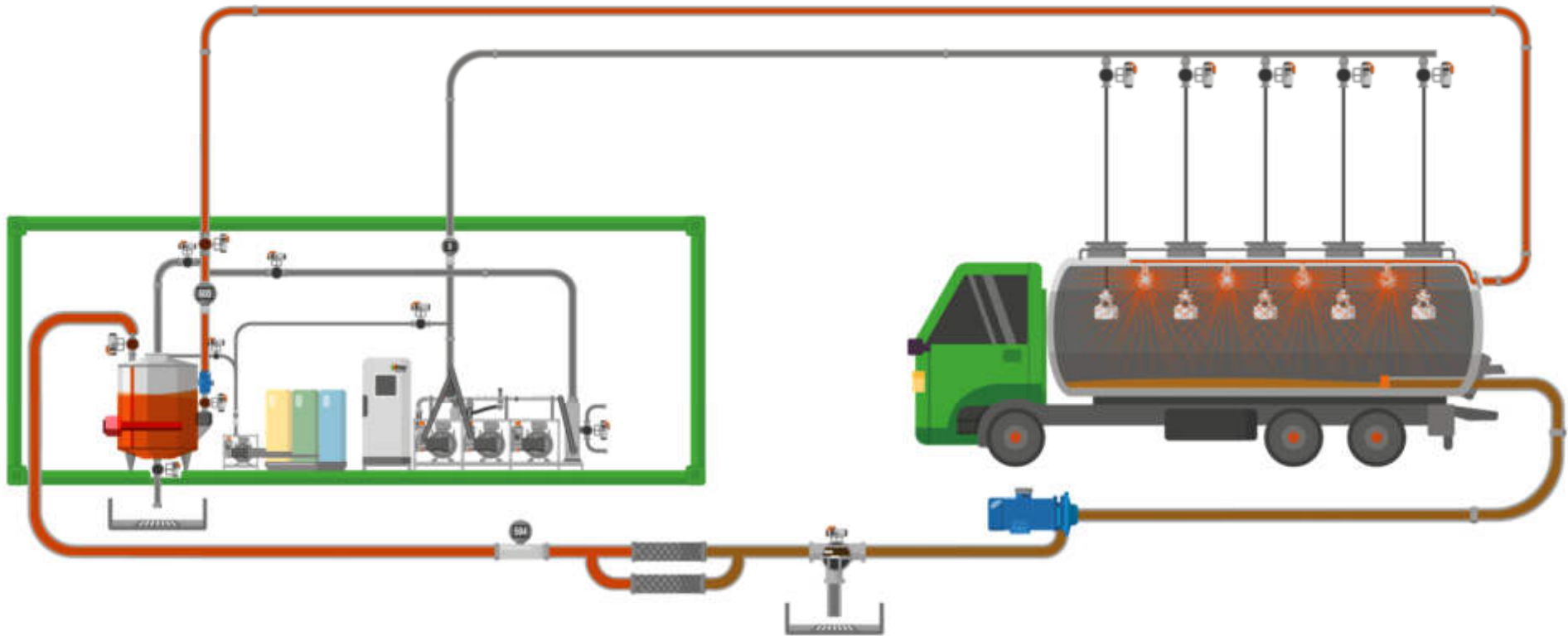


## Step 5 Final Rinsing of the tank



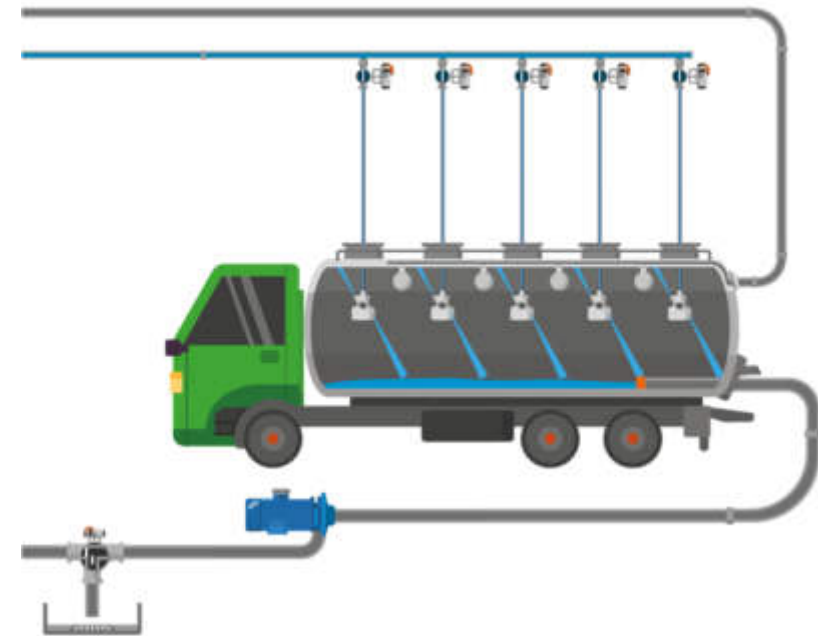
## Advantages / benefits

- Same (or better) cleaning results compared to traditional CIP-cleaning



## Advantages / benefits

- More sustainable due to savings in consumption of:
  - Gas Energy (saving of 30,69 m<sup>3</sup> per cleaning)
  - Water (saving 3.825 liter per cleaning)
  - Detergent (saving 5,1 liter per cleaning)
- Therefore also more cost efficient:
  - 59% saving per cleaning on energy, water and detergents
- “Plug-and-Play” containerized installation possibilities in existing facilities
- ‘Return On Investment’ (ROI) levels high compared to old situation, allowing a better position in RFQ projects





## Summery

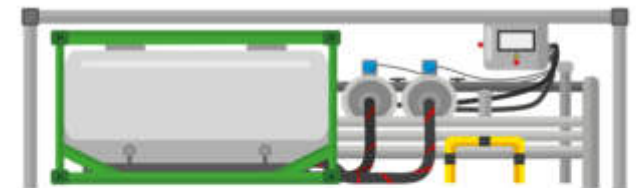
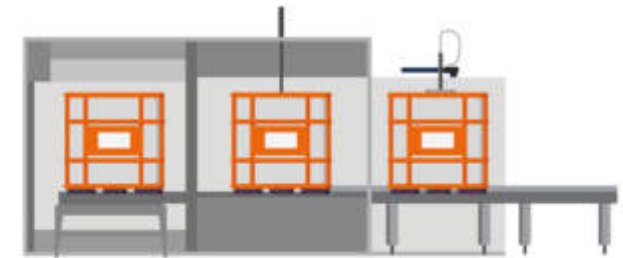
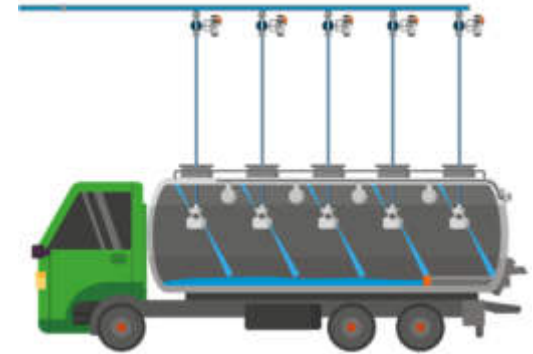
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The core activities of CTW Cleaning Systems:

- 🚗 Tank Cleaning
- 🚗 IBC Cleaning
- 🚗 ISO-tank Heating
- 🚗 Self Carwash
- 🚗 Renewing PLC of outdated installations

Ongoing projects:

- 🚗 CIP/Tank Cleaning – Crossland Tankers UK
- 🚗 Tank Cleaning – XPO Germany
- 🚗 Tank Cleaning – Resoclean France
- 🚗 Tank Heating – Alochem Belgium
- 🚗 Tank Heating – TSA Port / GCA Belgium





## Thanks for your attention!

**“Cleaning is not for the faint of heart;  
it's for the determined and the dedicated.”**

*Let's get in touch*



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