



HAMMANN

Comprex®-Cleaning
for industrial equipment

Reference project:

Plate heat exchanger in a brewery



Figure 1: Plate heat exchanger

Cleaning of a Plate-Heat Exchanger

Problem

- Quality demands of the product require constant quality and temperature of fresh water.
- This is ensured by plate heat exchangers
- Cooling side: glycol or ammonia
- Water side is affected by fouling and has to be cleaned in certain intervals
- Chemical cleaning agents are not wanted
- Welded plate heat exchangers cannot be opened



Figure 2: Connections of the Comprex® -
Equipment

Cleaning of the Heat Exchanger with the Comprex® - Process

- Water and air inlet through blue hoses
- Wastewater discharge through red hose
- First cleaning procedure could require preparational work on the plant (two connections are needed)
- Further cleaning procedures could be done regularly with installed equipment

Advantages

- No chemical cleaning agents needed → no critical wastewater
- Just water and 4x filtered air needed
- No dismantling of the plant required → CIP
- Heat exchanger and pipes can be cleaned simultaneously
- Short time for entire cleaning procedure → Short time of shutdown for the plant
- High efficiency of the cleaning process

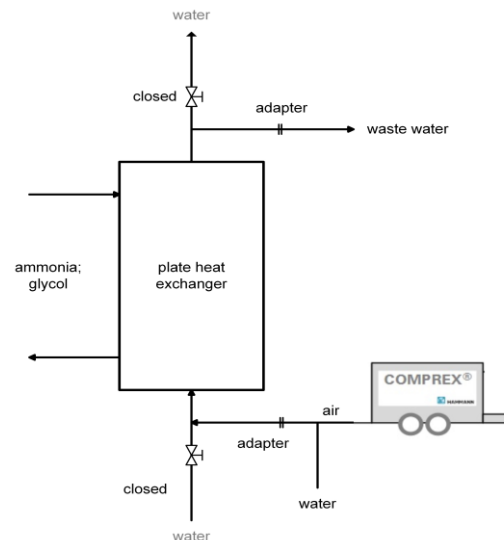


Figure 3: Overview of the cleaning process