CIP-facilities for advanced fruit juice plants

- Automated preparation of cleaning agents
- Object related cleaning schemes
- Cleaning of single components during production
- Integration into overall plant
- Full automation possible
Bucher Unipektin CIP facilities are on duty for the cleaning in advanced fruit juice plants where an efficient and striking cleaning stands for remarkable and high quality fruit juices. Wherever apples, pears, berries or vegetables are processed, our facilities are ready to clean the involved tanks, pipes, grinders and tanks. Furthermore cleaning-solutions for units with individual CIP-program can be put at disposition, e.g. for presses and evaporators. Thanks to our broad experience the use of auxiliary material (water, cleaning- and disinfection-mediums, energy) is economically and ecologically optimised.

Set-up and process Adjacent pictures show a plant with 4 storing-tanks: per tank the brine, the pre-rinsing water as well as the rinsing water are put at disposition. By automised dosing-units the chemicals are added precisely and safe. A heat-exchanger heats the brine to the desired temperature and maintains it on the desired level during the cleaning. Dosage of disinfectants or acidity is optional and becomes typically applied in-line. By measurement of conductivity the defined change of phases between product, cleaning-solution and water are registered and the valves become switched accordingly. The operation of leakage valves within the production range assures a secure separation of cleaning-solution and aliment.

Typical cycle of an automised CIP-cleaning:
- Pre-rinsing (with recycled flushing water)
- Brine-based cleaning (e.g. 1-2 % NaOH on 70-80°C)
- Intermediate rinsing (optional)
- Disinfection (optional) with Peroxyd / Peracetic acid) or neutralisation & cleaning with acid
- Rinsing

Technical data
Models: single- and bi-stream plants
Storage tanks: selectable, depending of plant-size
Control: semi- and fully automised, depending customer request

Subject to change without notice