

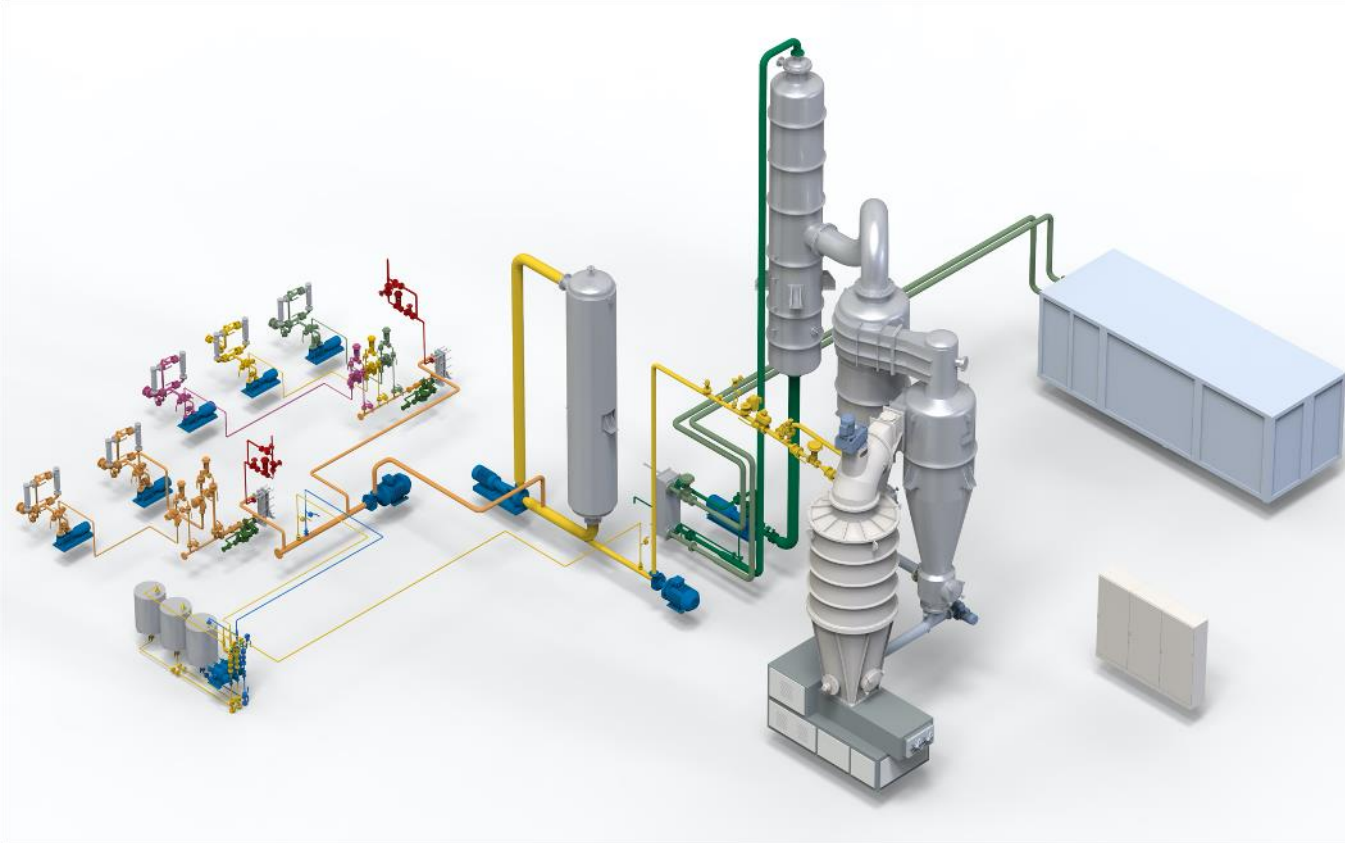


SOAP PLANTS: SAPONIFICATION & SOAP VACUUM DRYER

Customer satisfaction is our mission...
experience is our strenght



SAPONIFICATION & SOAP VACUUM DRYER INTEGRATED



Soaptec's Integrated Soap Making Plant joins together a Continuous Saponification unit and a Vacuum Spray Dryer in a single production plant.

Advantages of this set-up are many:

- Use of exothermic nature of saponification reaction to pre-heat the soap (energy saving)
- Avoidance of exposition to air of soap until it is solidified and cooled (stable)
- Use of Reactor pressure for Atomizer infeed (investment and maintenance saving avoiding feed pump)
- No effluents
- Extremely reduced plant foot-print



CONTINUOUS SAPONIFICATION

Soaptec's Continuous Saponification installation uses Universal Autocatalytic Reactor for quick and complete reaction between all ingredients of the formulation.

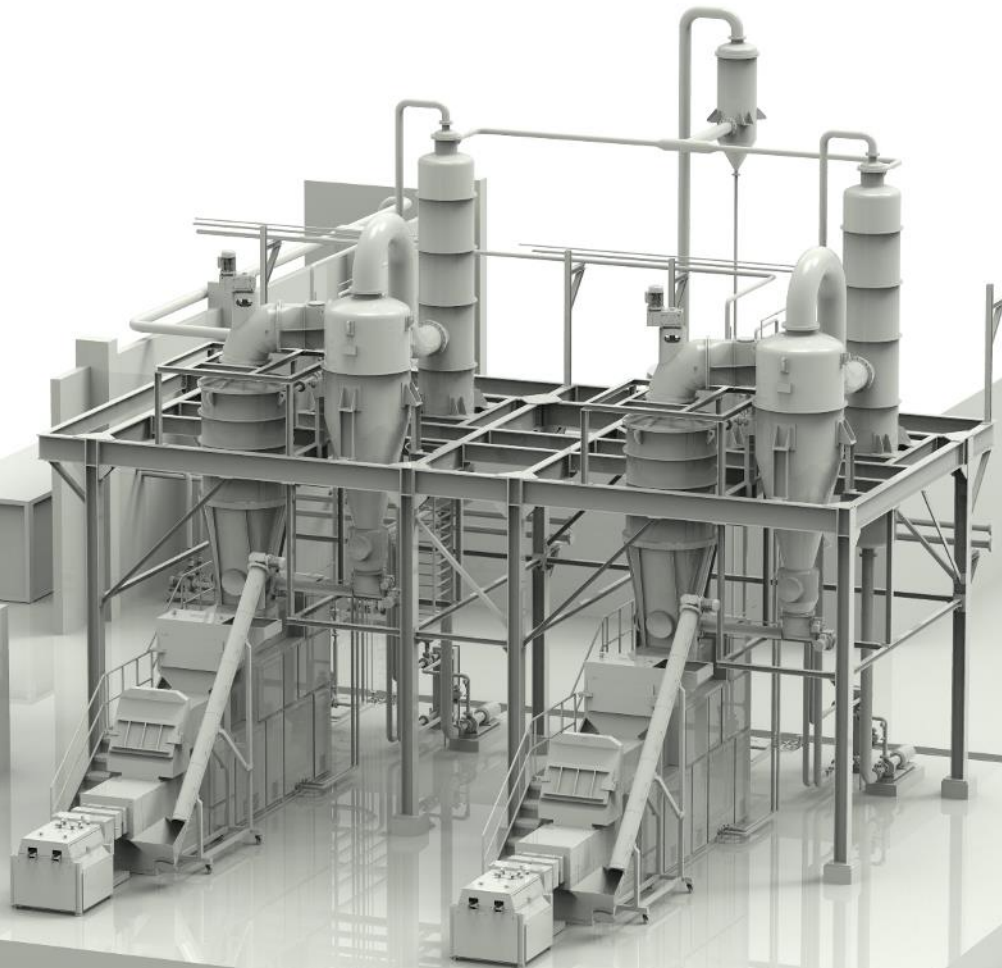
A continuous stream of fresh reagents is injected into a stream of already formed soap that assures intimate contact between them.

Dosing system is of paramount importance and is controlled by dedicated mass flow meters. Information given by flow meters is used to regulate the flow via modulating valve in case of centrifugal type dosing pumps or frequency inverter in case of positive displacement type dosing pump.

Semi Boiled and Full Boiled



TOILET & LAUNDRY SOAP VACUUM DRYER



- Soaptec's Vacuum Spray Dryers use Tangential Inlet Atomizers that allow for easy soap back-pressure control and reduce fines formation. Also, they eliminate the need for soap seal reducing the maintenance cost.

- Condenser is Indirectly Cooled Direct Contact type where the condensation temperature gets controlled using a Chiller. This allows a full control of vacuum levels inside the plant with all relative advantages, main being elimination of steam boosters (great steam saving). Additionally, this set-up does not need the cooling towers, resulting in huge water savings.

- Also, full enclosure allows for great flexibility in lay-out organization since there is no need for minimal height of placement.





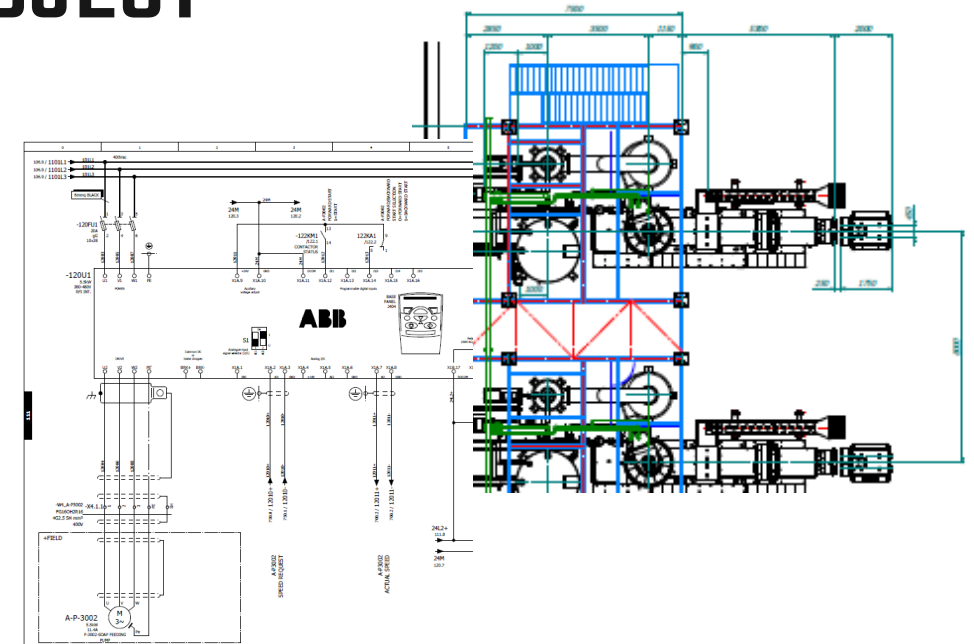
PNEUMATIC TRANSPORT



Once produced, soap noodles have to be taken to the point of use: finishing line, bagging station or soap noodles silo.

Most convenient way to do this is by use of Pneumatic Conveyors that can pick the noodles from one or more points and discharge it to as many points as necessary using compressed and cooled air as transport medium.

TAILOR MADE AND TURN KEY PROJECT



Our company specialises in the manufacture of tailor made plants and machinery dedicated to the production of Personal Care and Household soap. Based on individual requirements, our company designs and builds custom compound plants using different types of basic elements such as dosing components, reactors, tanks, heat exchangers, atomizers, plidders and so on.

All of Soaptec's equipment is developed in accordance with national and international safety regulations and is manufactured using the best materials available, including stainless steel and carbon steel, to provide customers with maximum reliability, durability, and overall quality.



SUSTAINABILITY
OPPORTUNITY
ADVANCEMENT
PASSION
TECHNOLOGY
EXPERIENCE.
CARE



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