

FINING STATION



Applications

The B&P fining station has been designed for use with food processing technology. To ensure efficiency, stability and suitable organoleptic properties of their products, manufacturers of concentrates and beverages use finings which must be precisely dosed during the production processes.

Operation principle

In its standard version, the B&P fining station is fitted with four tanks. Two tanks are used for preparing the bentonite solution while the third tank is used for preparing a colloidal mixture. The fourth tank is reserved for diluting and heating up gelatine solutions, and is fitted with its own circulating pump, a heat exchanger and a water heating jacket. The tank volumes can be matched to individual customer needs.

A fully automatic PLC control system has been developed for the B&P fining station. All fining operations are completely visualised and can be controlled and monitored via a touch screen.

In order to perform a fining operation, you only have to specify the fining substance, its quantity, the water quantity to be added and the process tank. This data is used to prepare the solution, which is then directed to the desired tank. Next, the collector line is rinsed and the system shuts down automatically. All data is archived according to the current production monitoring requirements (in particular, with the HACCP system).

Advantages

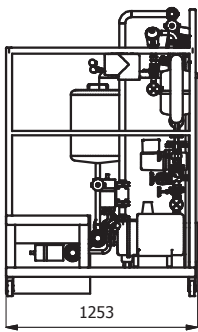
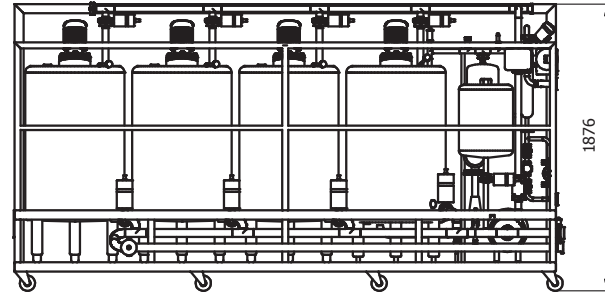
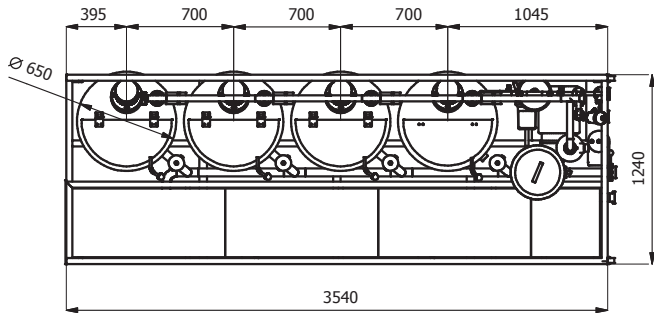
- High flexibility and efficiency
- Convenient maintenance
- Fully automatic PLC control system with visualisation technology
- Low space requirements
- Time saving
- No losses
- Exact metering



FINING STATION



Technical data



Efficiency	Adjusted to the line size
Control system	Simatic S-7
Power input	5-15 kW
Dimensions	Length: 3,540 mm, width: 1,240 mm, height: 1,876 mm
Steam consumption	Max. up to 50 kg/h
Steam pressure	1-4 bar
Material	Stainless steel AISI 304/option 316L

Deliverables

- 3 fining tanks, volume: approx. 500 l, with sight glass and fine scale
- Thermos vessel, approx. 300 l
- 4 stirring units
- JAD pipe heat exchanger with adjustment system or electrical heat-up
- Circulating pump, delivery rate: up to 5 m³/h
- SIEMENS SIMATIC S-7 control cabinet
- Piping between the fining station and the supply collector

Options

- Touch screen – visualisation of the line element working with the fining station
- Bentonite vessel with stirring unit and operator's platform, volume: 3 m³, material: AISI 304/316L