

Propagation of Yeast (Yeast Management)

Yeast Propagator



The Principle

The Yeast Propagator consists of one or more individually controllable propagation tanks. The number and the size of these propagators relates to the brewery's capacity and the processes. For yeast propagation the yeast suspension is filled into the propagator and mixed with fresh wort until the desired yeast quantity and cell concentration are reached. At the same time the mixture is aerated and gently recirculated to achieve homogeneity. Inside the propagator the yeast cells grow in sterile environment. For aeration oxygen or sterile air is used. The O₂ content is permanently monitored using a high precision optical OXYTRANS sensor made by Centec. Ideal and stable conditions inside the propagation tank result in vital and healthy yeast cells with nearly 100 % viability. The yeast cells can be pitched into the wort stream for fermentation, or they are transferred to other propagators for further yeast growth. All yeast pumps and components in the system are designed for very gentle yeast treatment, so as to fully preserve the viability and vitality of the yeast cells.

Typical Technical Data

Capacity

1 - 20 hl per propagation tank

Material

1.4301/AISI 304; 1.4404/AISI 316L; etc.

Options

electropolished surfaces inside the propagator
in-line O₂ measurement
live yeast cell monitor
wort sterilization

Highlights

Maximum viability and vitality of the yeast cells
High microbiological security at all stages of the process
Customized design; different automation levels

The Centec Group

Centec offer fully automated, skid-mounted process units and high precision measurement technology from a single source. Our systems and sensors are engineered to perfectly meet the most demanding requirements of the brewery, beverage, food and pharmaceutical industries. With a team of experienced engineers, we aim to create quantifiable added value for our customers. We are your partner from planning and design through to commissioning of your plant.



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