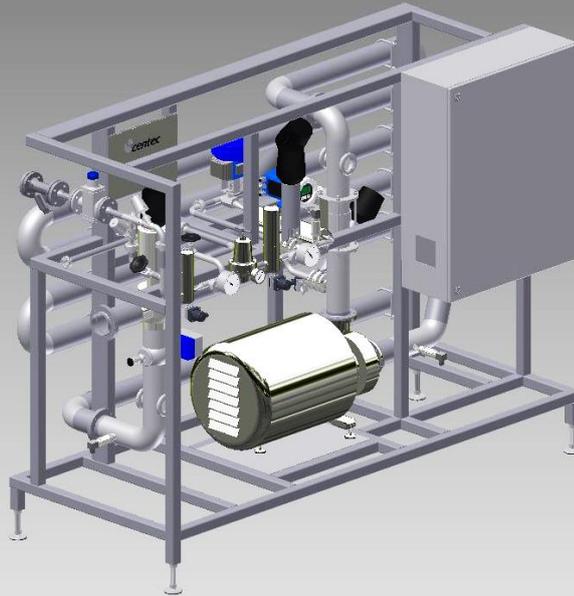


Aeration of Wort

Wort Aerator



The Principle

The Wort Aerator is used for the continuous and highly accurate injection of oxygen or sterile air into beer wort. The solubility of oxygen in wort depends on the temperature. The colder the liquid, the better is the oxygen solubility. Therefore, aeration is done after cooling of the wort. The amount of oxygen or sterile air to be added to the wort depends on various factors, e. g. original gravity, type of yeast and the desired final product characteristics. The Wort Aerator can be designed for manual or fully automated operation. Automated systems measure and control the O_2 content of the wort with highest precision with an optical OXYTRANS sensor made by Centec. Based on oxygen and flow measurement, the amount of oxygen injected is precisely adjusted to match the measured wort flow. For O_2 injection the Wort Aerator has a specifically designed Vortex-Venturi injector that feeds oxygen directly into the product stream. The Wort Aerator is equipped with a sterile filter system to sterilize the incoming gas.

Typical Technical Data

Capacity	10 - 3.000 hl/h
Dosing Range O ₂	8 - 40 ppm
Material	1.4301/AISI 304; 1.4404/AISI 316L; etc.
Options	in-line O ₂ measurement booster pump wort cooler yeast pitching

Highlights

High precision OXYTRANS O₂ sensor for process control
Specifically designed Vortex-Venturi injector for O₂ injection
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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