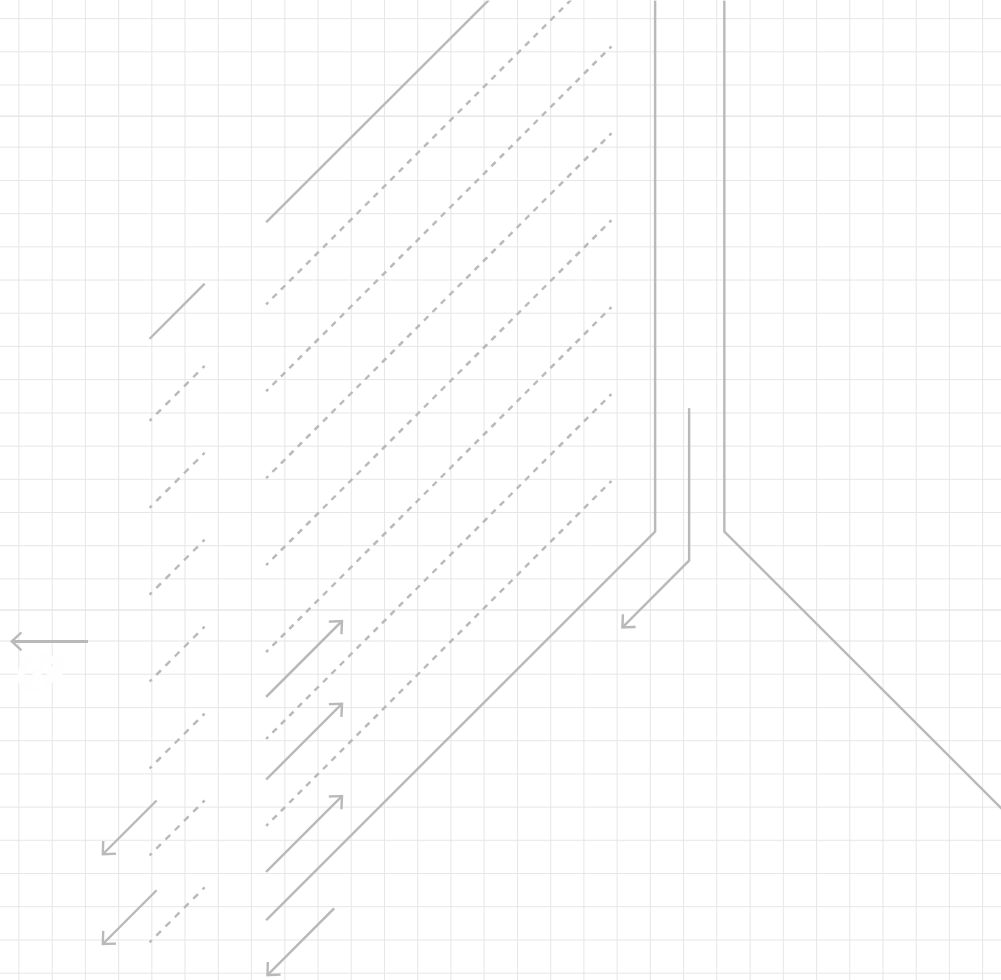


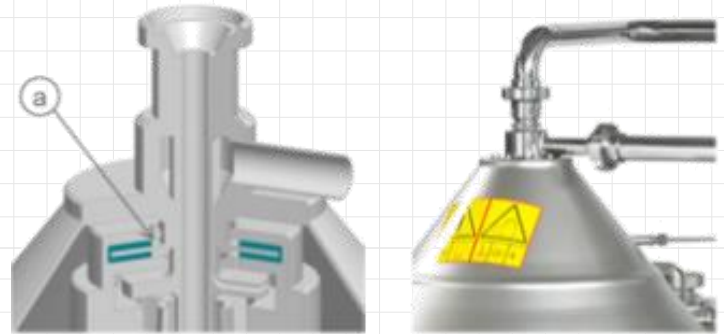


Protection from O₂



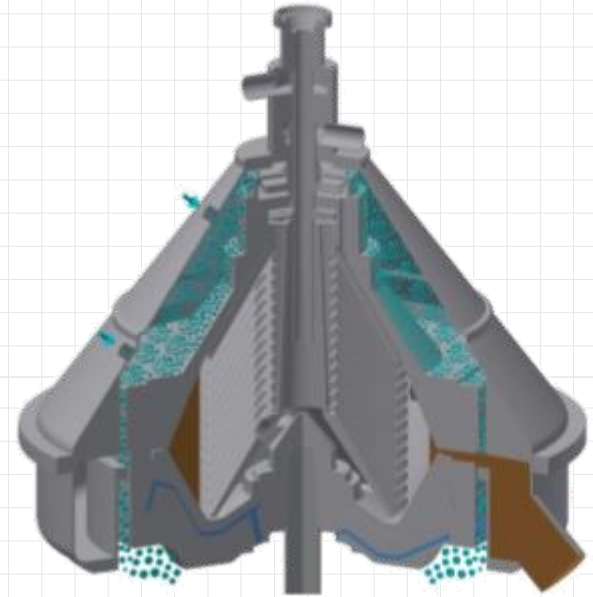
Competitor Solution 1: Hydraulic Seals

- Additional chamber (a) at the top of the bowl, that completely separates the processed liquid from the external ambient.
 - The hydraulic seal must be filled with degassed water and must be replenished after every discharge.
 - The degassed water must be checked and should have no contamination because during the discharge of the bowl, it is sucked into the beer.
-
- Hydraulic seal: typical oxygen pick-up
≈ 80-100 ppb



Competitor Solution 2: Insertion of CO₂ or Nitrogen

- Continuous flushing under the centrifuge's cover, considerable loss of gas in the Brewery environment.
- No protection from Beer CO₂ loss
- Reliability and repeatability pending the insertion pressure
- Insertion of Gas: typical oxygen absorption
≈ 60-80 ppb



Trucent Solution: Hermetic Centrifuge and Mechanical Seals

- Contains 3 sets of mechanical seals
- Protect the CO₂ level of the Beer, no loss.
- Almost no oxygen pick-up (less than 10 ppb)
- Clarification at pressures up to 8-9 bars
- Protection of flavors and aromas
- High reliability, durability and repeatability
- Water cooled
- CIP design
- No need of inserting gas or non oxygenated water
- A mechanical barrier between beer and external environment

≈ Less than 10 ppb

