FPS GLOBAL PARTNERS

"Complete Solutions For Beverage"

BEER CLARIFICATION

CRAFT BEER CLARIFIER SKID

JUNE 2022

FPS GLOBAL PARTNERS

Global Solutions For Separation and Beverage Processing

Established in 2016 FPS Global Partners is a leader in separation for beverage worldwide. With installs in North America, SE Asia & Europe, FPS has become the predominant company in the beverage / beer industry for separation solutions especially in the craft beer market.

FPS is the leading distributor for Frautech separators, complete service & parts and process optimization. With over 70+ installs worldwide and the ability to provide service & support FPS is the first choice when it comes to choosing a company to work with.

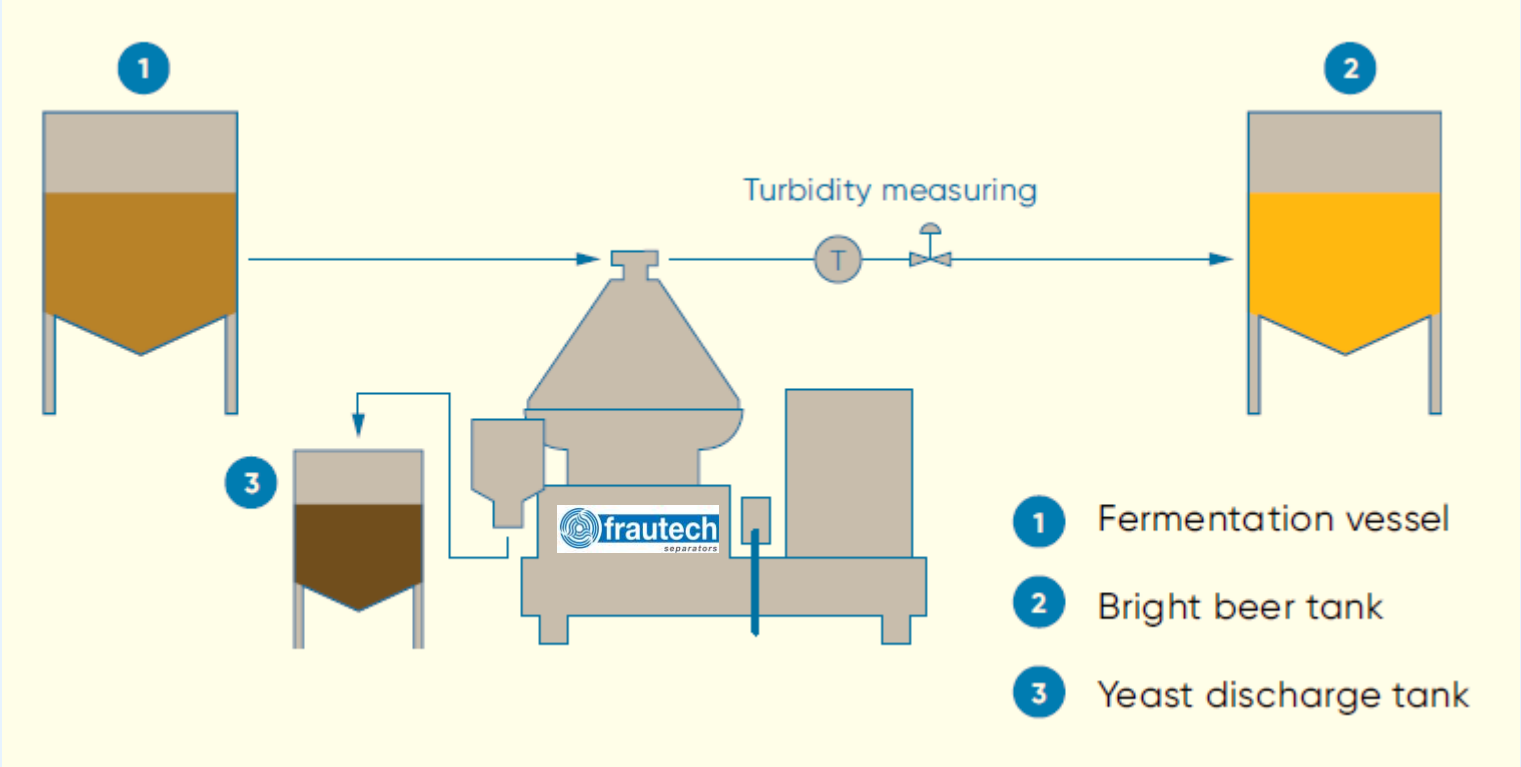
With a service base in North America, Pacific region, Singapore & Europe we are able to provide our customers with quality service within 24 to 48hrs.

Excelling in Beer, Dairy, Juice, Chemical, Coconut water, Tea and multiple other industries for complete solutions

Let FPS show you how we can provide you with highest quality equipment, service and support.

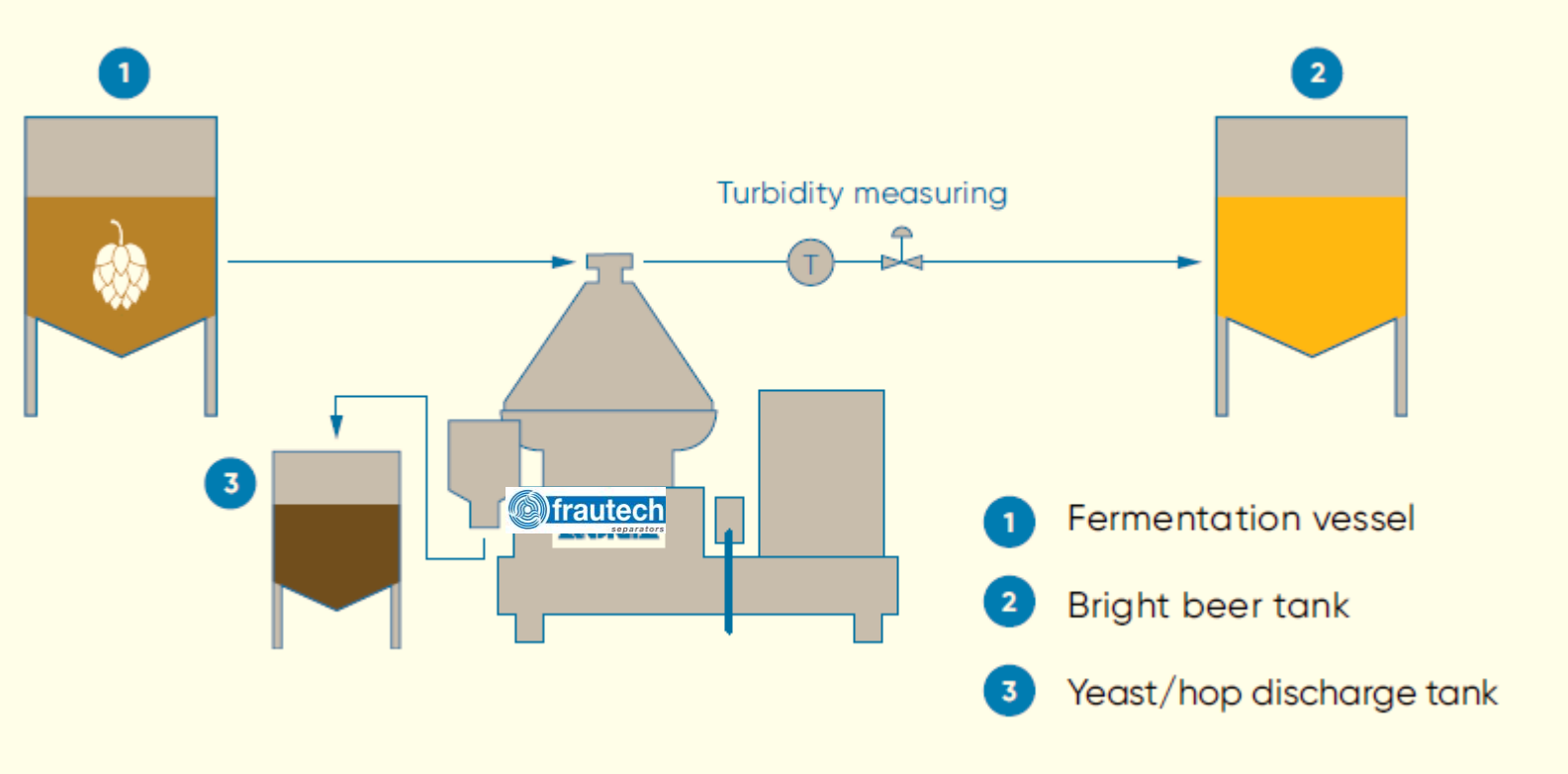
CRAFT BEER CLARIFICATION

Beer clarification



CRAFT BEER CLARIFICATION

Dry hopping beer clarification



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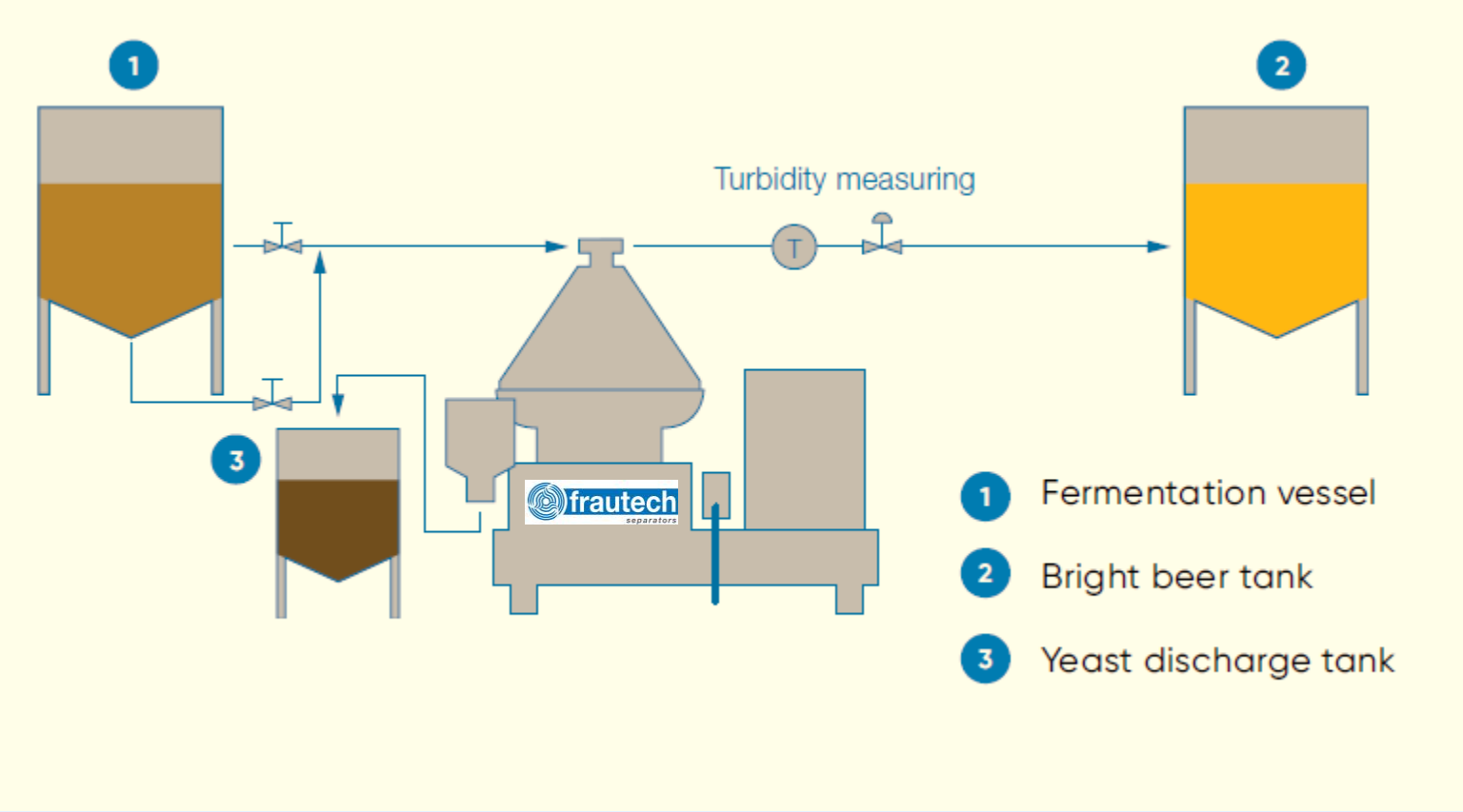
Tank bottom clarification



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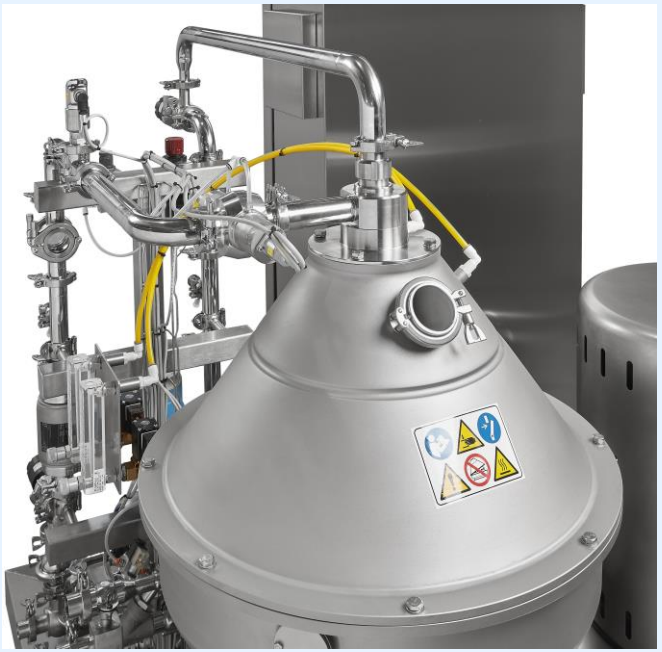
A leap forward in beer clarification



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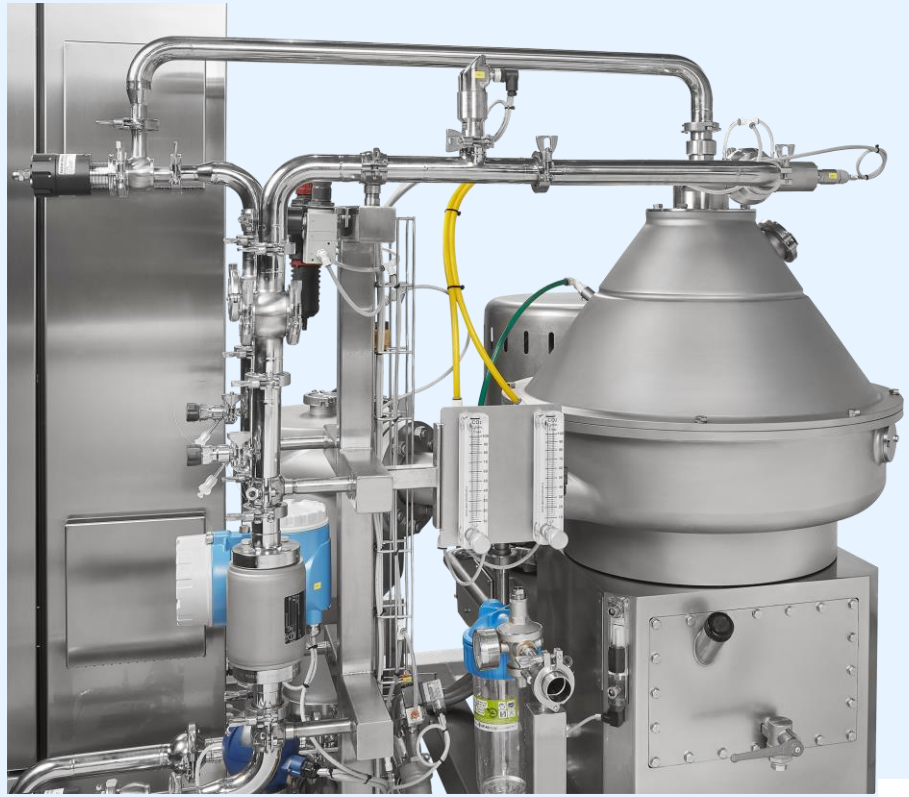
Benefits – Very Short return on investment

BENEFITS
• Up to 10% higher yields and shorter processing times compared to traditional filtration and settling methods
• Increased final product stability, increased flavour & aroma and “cleaner” final product profiles
• Optimal control of turbidity (CU) level in clarified beer, allowing reduced time from FV to BBT
• Low oxygen pick up (< 35 ppb) thanks to our KO2 hydro hermetic sealing device
• Fully hygienic construction made of stainless steel with high grade finishing
• Low in and out temperature differences
• State of the art HMI with program specifically designed for breweries



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Benefits – Very Short return on investment

BENEFITS

- Energy savings by the use of a variable speed belt drive
- Minimized or eliminated consumption of filter aids and diatomic earth
- Extended filter operation life
- Easy to install, operate and maintain
- Integration to automatic CIP system

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Multi purpose clarifier: Working principles

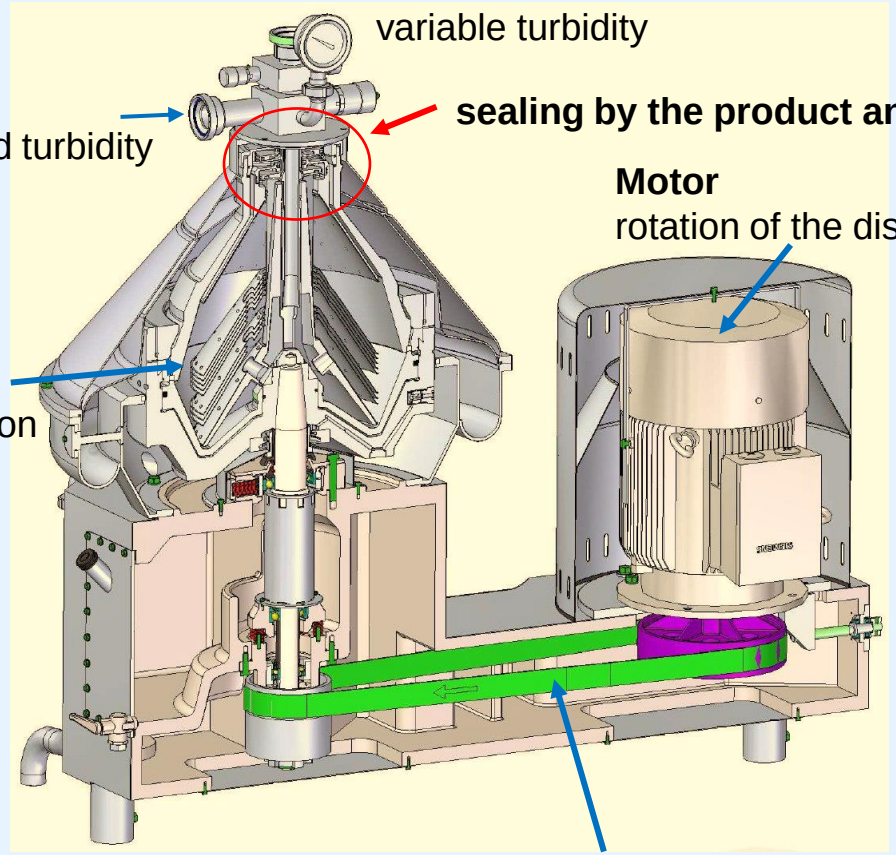
Product inlet
variable turbidity

Product outlet
constant desired turbidity

sealing by the product and purging gas

Motor
rotation of the disk stack

Disk stack
liquid solid separation



Belt
transmission to the bowl

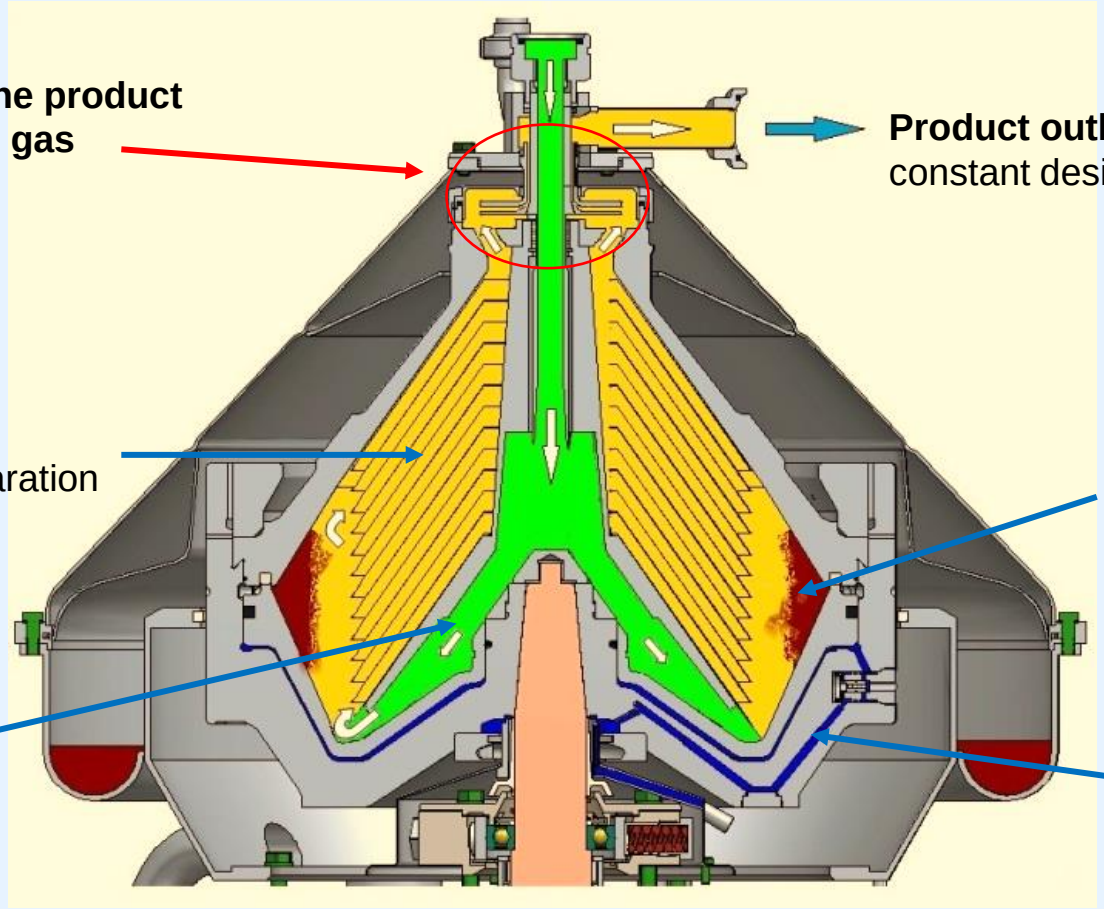
CRAFT BEER CLARIFIER SKID

Multi purpose clarifier: Working principles

Product inlet
variable turbidity

sealing by the product and purging gas

Product outlet
constant desired turbidity



Disk stack
liquid solid separation

Trub/Yeast deposition
concentration of solids

Product distribution
and acceleration

Self cleaning bowl
with intermittent solids ejection

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Standard scope of supply

- Complete clarifier skid with all instruments included.
- Color touch panel with graphic visualization of the clarification process.
- Variable frequency drive to allow optimum acceleration and deceleration of the centrifuge.
- Feed control valve with mag flow meter, automatic with integrated recirculation line (advanced unit)
- Back pressure control valve with pressure transducer, fully automatic with integrated recirculation line (advanced unit)
- Integration in full automatic CIP (cleaning in place) system.
- Turbidity monitoring and automatic control of CU (turbidity) level in skid outlet, fully automatic.
- Operating water system with bowl open and close solenoids.
- Feed valve, flush valve, hood cooling valve, sample ports inlet/outlet, sight glasses inlet/outlet, water filters, gauges, and all air and electrical connections.
- KO_2, hydro hermetic sealing device designed to minimize the oxygen pick-up.

INLET/OUTLET ILLUMINATED SIGHT GLASSES

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KO2, knock out oxygen

- **Higher quality of the product**: thanks to the sealing by the product and purging gas, there is no risk of increasing the oxygen during discharge and no risk to contaminate the product with water

- **Extended shelf life of the product:** thanks to extremely low oxygen pick up (< 35 ppb and in most cases below 10ppb), dissolved oxygen (DO) increase is minimized

- **Easy to adjust to during operation:** HMI settings and manual gauges allow for easy adjustment during product processing

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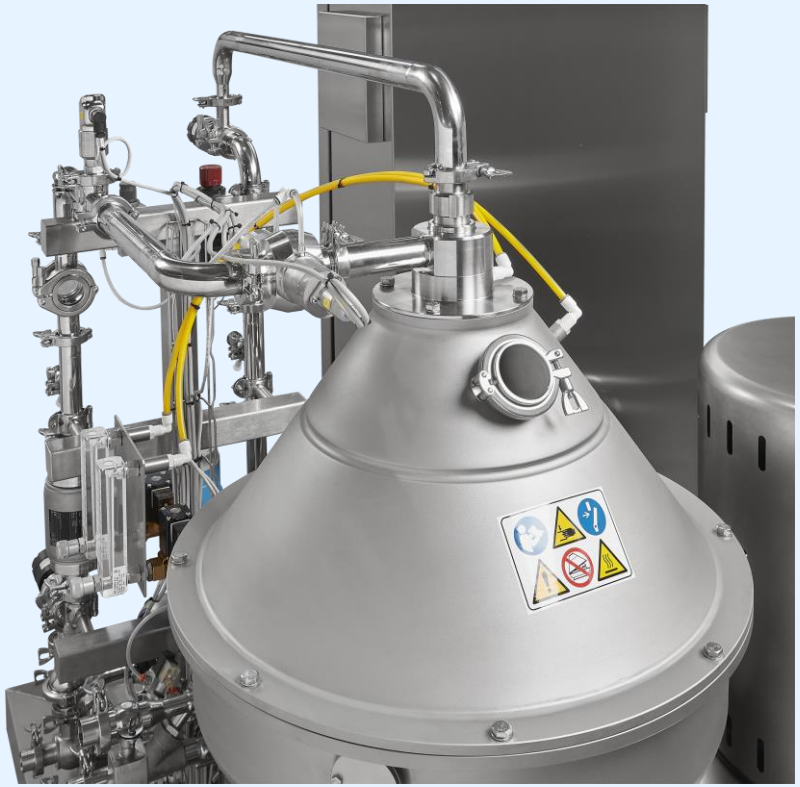
KO_2, knock out oxygen

- **Low operating costs:**
    - Due to the low consumption of N_2 or CO_2
    - Due to no water seal there is no need for deaerated water or water
- **Lower plant investment expenses:** no deaerating water system is needed
- **No Mechanical Seal:** eliminates expensive replacement parts & downtime
- **Proven:** Customers consistently achieve between 0-15ppb DO pickup from inlet to outlet



CRAFT BEER CLARIFIER SKID

Portfolio and technical data

TECHNICAL DATA*

Model		ArtBREW 31	ArtBREW 41	ArtBREW 71	ArtBREW 131	ArtBREW 201
Beer clarification capacity	hl/h	up to 50	up to 75	up to 150	up to 250	up to 350
Clarification of dry hopping beer	hl/h	6-25	12-35	25-75	40-130	70-180
Clarification of beer with addition of tank bottom **	hl/h	15	33	68	125	160
Installation weight	kg	750	1,200	1,500	2,300	2,600
Skid footprint	m x m	2.0 x 1.0	1.6 x 1.7	1.9 x 2.0	3.0 x 1.7	3.0 x 1.7
Skid height	m	1.7	1.8	1.8	2.2	2.2
Total installed power	kW (HP)	5.5 (7.5)	11 (15)	15 (20)	22 (30)	37 (50)

* Capacity depends on the characteristics of the beer.
** Average value considering 2%v solids

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