

Wort Aeration System

Keeping brewer's yeast viable



bürkert
FLUID CONTROL SYSTEMS

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- Perfect yeast attenuation levels while preserving harvest viability
- Product consistency, stability and great taste
- Precise and simple to operate, plug and play ready
- Rapid return of capital investment

Keeping brewer's yeast viable

The Bürkert Wort Aeration System guarantees perfect yeast attenuation levels by precisely controlling the introduction of oxygen into the wort.

As the only necessary nutrient for brewing not naturally found in wort, the addition of oxygen into pre-fermented beer is essential. Without the introduction of oxygen during beer production, yeast cell growth in the biosynthesis (respiration) phase will be extremely limited. Inadequate yeast growth can cause poor attenuation, inconsistent or long fermentations, the production of undesirable flavour and aroma compounds, and yeast that is not fit for harvesting and re-pitching.



Facilitating product stability and great taste while relieving brewer's common troubles.

Brewer's current challenge

Manually controlled aeration or oxygenation equipment, in various shapes and forms, is the de-facto standard in nearly every brewery. Many brewers are well-versed in approximating aeration levels based on the aggression of bubbles in a sight glass. However, this method is never fully in control and may lead to loss of product and time in the worst case.

Good for beer

The Bürkert Wort Aeration System guarantees perfect yeast attenuation levels by precisely controlling the introduction of medical grade oxygen into post-boil, crash-chilled wort – all while preserving harvest viability of unique yeasts which are especially precious in the craft brewing industry. By eliminating under- and overpitching, the brewer's product clearly benefits through guaranteeing consistency, stability and great taste.

Good for brewers

In addition to the beneficial impact on the beer itself, the Bürkert Wort Aeration System also relieves brewers from common troubles: unlike manually operated, basic aeration blower devices, the Bürkert system is precise and simple to operate. Unlike complex integrated systems, the Bürkert solution is plug and play ready, and can operate as a stand-

alone device or can be integrated into existing plant automation systems. By preventing lost batches and lost production time, the Bürkert Wort Aeration System ensures a rapid return of capital investment and optimizes the brewery's production capability. This promise clearly motivates brewers to retrofit existing manual or overly complex aeration equipment as soon as production plans allow it.

Convincing figures

Users of traditional wort aeration techniques will enter a dramatically changed working landscape when deploying the Bürkert system: An aeration process which finally is 100% reproducible and 100% reliable – always maintaining equal taste and quality of the beer. Besides soaring yeast harvesting quality, the automated system can increase overall production levels and reduce yeast overpitching expenses while keeping operator training efforts at minimum.

Why our solution is best

Great taste, yeast harvest viability and a rapid return of capital investment – many good reasons for brewers to introduce the Bürkert Wort Aeration System. Beyond all of these immediately evident advantages, a brewery ensuring quality and repeatability of the final product will see its brand thrive in the long run.



Technical Details

Variants	<ul style="list-style-type: none">▪ Solid front door on cabinet▪ See-through glass front door on cabinet▪ Additional analysis unit MultiCELL8619 with data recorder and display (pictured)
Material	Media-contacting parts in stainless steel
System case	IP 65 / 66
Capacity range	<ul style="list-style-type: none">▪ 2 – 10 mg O₂/l▪ 1 – 1500 hl/h cold wort flow rate▪ The system can be adjusted for all capacity ranges; customized applications are also available on request
Media	<ul style="list-style-type: none">▪ Air▪ Oxygen