

Bragging Writes

How We Make It Work Better

A case study presented by:

M.G. Newell



As one of the major ingredients in beer, breweries understand the importance of deaerated water. Water normally contains around 10-12 ppm of dissolved oxygen. This may not sound like a problem, but in brewing, oxygen is detrimental to the flavor stability of the beer. Deaerated water is therefore preferred, and often required, in brewing to:

- Prolong shelf life and prevent spoiling
- Push beer from one tank to another
- Produce high-gravity beers

An established brewery wanted to establish a small-scale pilot brewery for small craft batches and one-off specialty recipes. The brewery had already investigated the commercial deaeration systems on the market. They found those systems to be too large, cost prohibitive, built overseas with very long lead times and accordingly, spare parts would be difficult to procure, and equipment support a challenge.



M.G. Newell engineers offered to design and fabricate a portable skid. The skid design included two Liqui-Cell® gas membrane contactors specifically sized for their desired capacity and pump size. The layout also included a UV sanitizer and instrumentation including a UL Certified® control panel. Our engineers ensured integration of the skid within their existing system of flow valves, analytical instrumentation, and tank level controls.



Problem Solved! The brewery now has on-demand, portable deaerated water whenever and wherever it is needed. The customer was very happy that M.G. Newell designed the skid to meet their specific needs, unlike other companies forcing them into one that didn't. They also realized some side benefits from their decision:

- Local support from their M.G. Newell account manager
- Service and support capability based in the U.S.
- Replacement parts sourced domestically with reasonable pricing and lead times

In fact, one of the companies offering a larger system is aware of our work and have referred their customers to M.G. Newell for these smaller scale skids. If there's one thing more complimentary than a customer reference, it's a competitor reference!

Want to learn more about how Liqui-Cel gas membrane contactors work? Click: [How Membrane Contactors Work.](#)

If you need help with one of your processes, contact one of our associates to see how ***We Make It Work Better.***