

# MYTHS VS FACTS

## Water Myths

Ambient Methods of Generating  
Water for Injection



GLOBAL • WATER • SOLUTIONS

1-800-964-7035

[www.Aqua-Chem.com](http://www.Aqua-Chem.com)

**MYTHS  
VS  
FACTS**

## The results of a recent poll on LinkedIn:

23% of the respondents expressed Microbial Control issues as the most likely reason for slower adoption of Ambient methods of generating WFI & PW.

“ *Microbial Contamination is difficult to control using Ambient (membrane) WFI Technology.* ”

# MYTHS VS FACTS

## MYTH

*“Microbial Contamination is difficult to control using Ambient (membrane) WFI Technology.”*

Microbial and Endotoxin contamination is a key concern for ambient WFI systems. The recent change to the PhEur monograph to allow membrane-based was based on decades worth of data and best practices using membranes to produce water of equal or better quality than WFI.

- Hygienic piping standards including no/minimal dead-legs and smooth surfaces to reduce the opportunity for biofilm formation.
- Regular sanitization using chemicals or hot water kills and prevents growth of bacteria. Modern systems feature fully automated hot cycles.
- Ultrafiltration elements provide an absolute barrier for pyrogens featuring up to 4.0 log reduction as low as 6,000 kDa MWCO.

Aqua-Chem has been providing Water for Injection systems for over 50 years and is an expert in membrane and distillation water treatment.

Torrent™ WFI Packaged water systems are engineered with an uncompromised, minimum risk approach to microbial control to ensure consistent release of product from an easy-to integrate alternate to a hot distillation water process.

# TORRENT™

- 👍 Hygienic design
- 👍 Feedwater disinfection
- 👍 Periodic Hot Water Sanitization
- 👍 Continuous Operation
- 👍 Annual carbon replacement
- 👍 Multi-barrier process design
- 👍 Robust process monitoring

**TORRENT™** design minimizes risk.



Want to learn  
more about

**TORRENT**<sup>TM</sup>?

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