

WE BREW WITH YOU®





Gianmaria Ricciardi

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Gianmaria Ricciardi

- Lallemand Brewing
- Technical Sales Manager
- Working in the brewing industry since 2009
 - Brewer (Italy and the UK)
 - Graduated in Food Technology and Biotechnology
 - C.E.R.B. (Italian Brewing Research Centre)





AGENDA

- PROCESS OPTIMIZATION WITH LALBREW® PREMIUM SERIES AND WILDBREW® BIOTECHNOLOGY SOLUTIONS
- LEVERAGING ENZYMES AND PROCESSING AIDS TO IMPROVE PROCESS EFFICIENCY AB VICKERS
- PROCESS SUSTAINABILITY WITH SIEBEL INSTITUTE OF TECHNOLOGY FORMATION



LALLEMAND BREWING BUSINESS UNIT







Our team prides itself on offering much more than just products and services.

QUALITY

Repitching, reliability and safety

- 24 control points
- **100 years** of experience in fermentations
- Produced in Europe

INNOVATION & PASSION

R&D collaborations with the academic community and the brewing industry all over the world.

- The first dry bacteria product specifically for beer brewing applications
- The first bioengineered commercial dry yeast for beer brewing applications*
- The first dry Kveik strain for commercial use
- The first dry non-Saccharomyces species for beer brewing applications

*available in the US only

To learn more

TECHNICAL SUPPORT

We Brew With You™

- Knowledge: most of our brewing team worked as brewers in the past.
- Availability: always ready to support you thanks our international technical team.
- Easy to reach: email, phone/mobile, website, mobile app, social media...we are here for you!

To learn more

Meet our team

LALLEMAND



PROCESS OPTIMIZATION WITH LALBREW® PREMIUM SERIES **AND WILDBREW® BIOTECHNOLOGY SOLUTIONS** LALLEMAND

LALBREW® PREMIUM



- LalBrew New England™, LalBrew Verdant IPA™ & LalBrew
 Pomona™
 - Aromatic strains, with a high capacity to free aromatic compounds from their odourless precursors (hops and other raw materials)
- LalBrew Voss™ & LalBrew NovaLager™
 - Strains extremely thermotolerant and performing; neutral flavour profiles and high versatility



- LalBrew Farmhouse™
 - Diastaticus negative
- LalBrew Nottingham™
 - Backup yeast; high affinity to maltotriose



Fig. 1: Total fermenter glycol chilling time when using LalBrew Voss™ and LalBrew Nottingham™





WILDBREW®

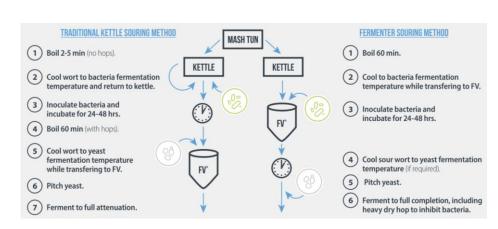


WildBrew Philly Sour™

Innovative non-saccharomyces strain (Lachancea spp.) – lactic acid
 yeast

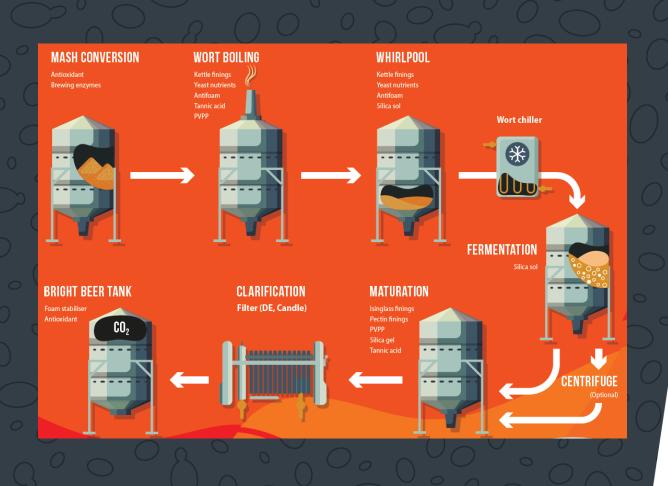
WildBrew Sour Pitch™ & WildBrew Helveticus Pitch™

Fermenter Souring









LEVERAGING ENZYMES AND PROCESSING AIDS TO IMPROVE **PROCESS** EFFICIENCY — AB **VICKERS** LALLEMAND





ISINGLASS FININGS

VEGAN FININGS

KETTLE FININGS

ANTIFOAM

YEAST NUTRIENTS

BEER STABILISERS

ENZYMES

ANTIOXIDANTS

CRYOFINE

PROTOSOL PROTOFINE

COMPAC CG COMPAC CG

FOAMSOL

YEASTLIFE O™

ALPHACLAR9

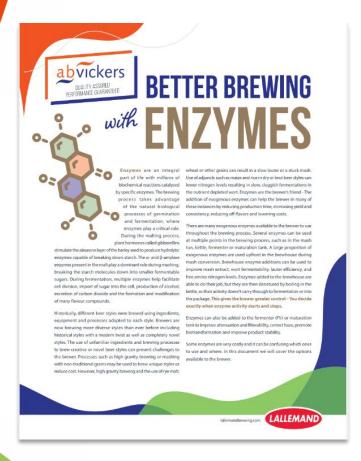
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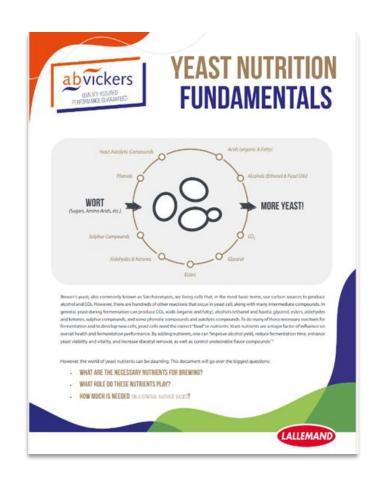
VICANT SBX VICANT SB

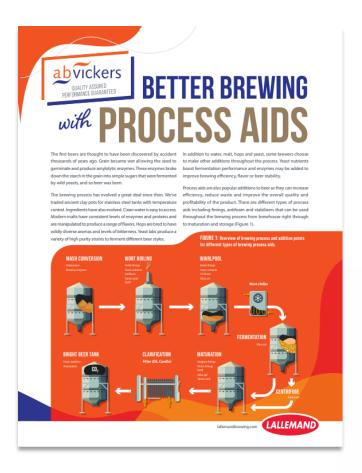


RESOURCES





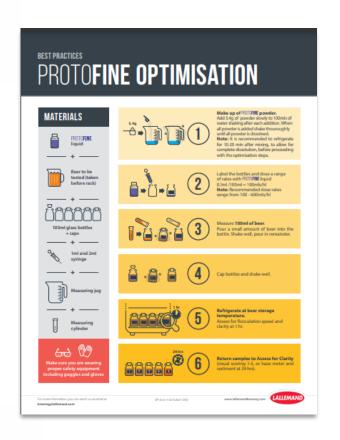


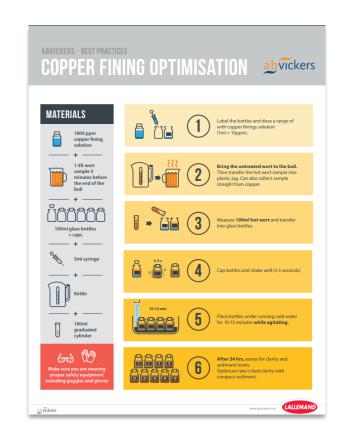


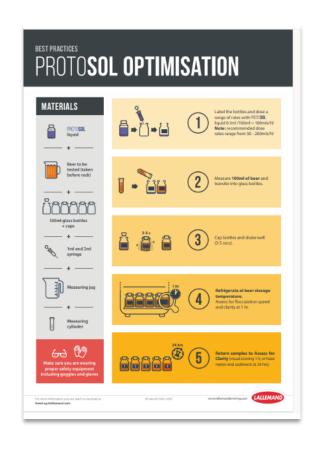


BEST PRACTICES















"The object of the institute is to promote the progress of the fermentation, which is done by analysis and otherwise."

Dr. John Ewald Siebel



Students from all over the world, since 1872



One common theme: fermentation



Approved by the Illinois Board of Higher Education

INTERNATIONALLY RECOGNIZED BREWING INDUSTRY EDUCATION AND SERVICE PROVIDER

About the Siebel Institute of Technology - Lallemand Brewing



- Can I reduce my cooling energy by shortening maturation time?
- Can I incorporate renewable energy into my process?
- Can I extend yeast usage through reuse?
- Can I lower malting costs by increasing wort efficiency?
- Can I minimize hop quantities by maximizing their use and encouraging biotransformation?
- Can I promote the use of alternative packaging?
- Can I utilize locally sourced ingredients?
- Can I reduce water and cleaning chemical usage?
- Can I **increase shelf life** to minimize the risk of products becoming unsellable?





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