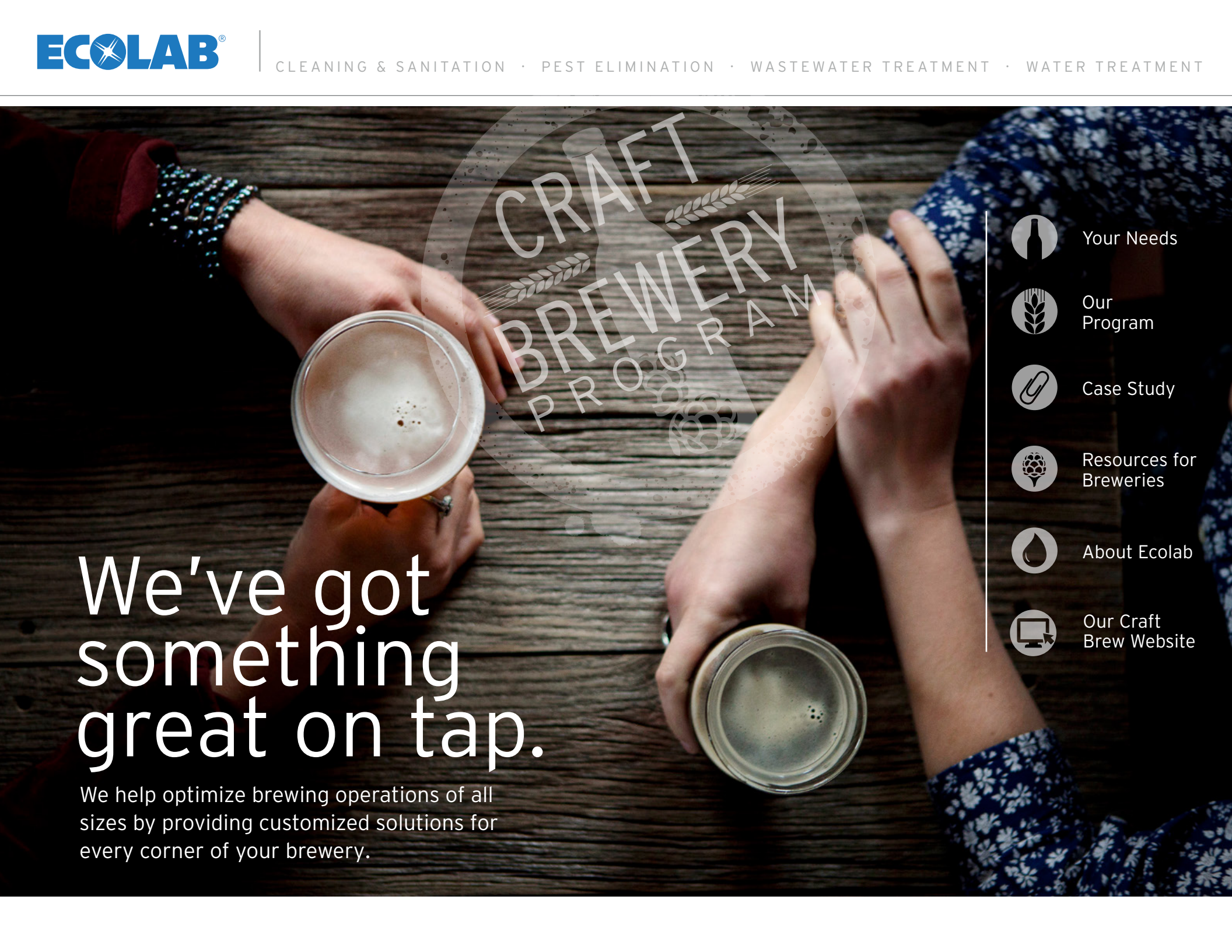


A top-down photograph of two hands clinking beer mugs on a dark wooden table. The hand on the left is wearing a red sleeve and several beaded bracelets. The hand on the right is wearing a blue patterned sleeve. In the center, a circular watermark reads "CRAFT BREWERY PROGRAM" with a wheat stalk and a hop cone icon. The background is a dark, textured wooden surface.

We've got something great on tap.

We help optimize brewing operations of all sizes by providing customized solutions for every corner of your brewery.



Your Needs



Our Program



Case Study



Resources for Breweries



About Ecolab



Our Craft Brew Website

YOU LOVE BREWING

We love helping you succeed.

Our best-in-class program has top-shelf products, detailed cleaning procedures, attentive service and resources to help you succeed.



DON'T GO IT ALONE

When you work with Ecolab, you know you've got a partner who understands your business. No matter how much you produce - whether it's 15k or over a million barrels a year. We have the knowledge and solutions to help you grow.

Specialized, holistic approach

Optimizing quality and processes

Sustainability and savings

Responsible changes that matter

Reducing your risks

Helping to keep your team and customers safe

Continuous improvement

Reviewing your program regularly



PRODUCT QUALITY



PRODUCTIVITY



WATER



SAFETY



ENERGY



FOOD SAFETY



Learn about our complete solutions for your total operation





CRAFT BREW PROGRAM

World class service. Locally delivered.

Your personal Ecolab representative periodically reviews program performance – ongoing assurance that your program continues to be the optimal solution for your growing operation.

Solutions for every corner of your brewery.



UTILITY & WATER PROCESS:

- Pretreatment solutions & automation
- Reverse osmosis for boiler feedwater
- Reverse osmosis for brewing water
- Automated cooling water and boiler treatment
- Advanced condensate treatment
- Scale inhibitors
- Corrosion inhibitors
- Microbicides • biocides



WASTEWATER TREATMENT:

- GRAS polymers
- Clarification
- Solids removal
- Emulsion breaking
- Dewatering
- Water reuse



PEST ELIMINATION:

- Proprietary, science-based solutions to eliminate pests
- Consistent service delivery
- Insights into proactive pest prevention



ENVIRONMENTAL CLEANING:

- Floor and drain management
- Doorway sanitation
- Hard surfaces and spot sanitizing



MASH TANK & LAUTER TUN:

- Alkaline or acid CIP cleaners
- Peroxide additive for burnt-on soil
- Treatment of brewing water
- Solution recovery for water savings



BREW KETTLE:

- Alkaline or acid CIP cleaners
- Peroxide additive for burnt-on soil, especially the calandria
- Brewing water treatment
- Solution recovery for water savings



WORT COOLER:

- Alkaline CIP cleaners
- Peroxide additive for burnt-on soil
- Solution recovery for water savings

FERMENTATION/MATURATION TANK:

- Alkaline or acid CIP cleaners
- Peroxide additive for organic soil removal
- Sanitizers for microbial control

FILTRATION:

- Alkaline CIP cleaners
- Specialty cleaners for filter compatibility

AGING/BRIGHT BEER TANK:

- Acid CIP cleaners
- Alkaline cleaners
- Acid sanitizers

BOTTLE/CAN FILLER:

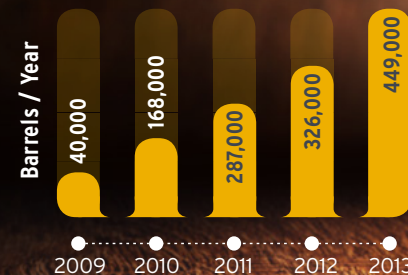
- Alkaline CIP cleaners
- Acid sanitizers
- External foam cleaners or sanitizers (acid sanitizer or ClO₂)
- Automated cleaning systems

BOTTLE WASHER/RINSE & PASTEURIZER:

- Conveyor lubricants
- External foam cleaners
- Water treatment in warmer or pasteurizer
- Disinfection system (chlorine analyzer)
- Pasteurizer boil out treatment
- Chlorine dioxide

OVER
22% ANNUAL GROWTH
of Craft Brew Sales

Growth of an Ecolab Customer



We're your partner as you grow.





CASE STUDY

Ecolab implements dry lubrication DryExx™ GF and ensures optimal lubrication with maximum water savings in the brewing and beverage industries.

CHALLENGE: The brewery in this case study established aggressive water and energy conservation targets. For the bottling hall, the goal was to dramatically reduce the water consumption, particularly in the filler area. **The challenge was multi-faceted: reduce water consumption, improve hygiene conditions and maintain full efficiency.**

SOLUTION: Ecolab introduced this brewer to DryExx™ GF, a highly effective, semi dry conveyor lubricant which eliminates the majority of water needed for conveyor lubrication while maintaining hygiene and efficiency.



RESULTS:

DryExx™ GF delivered the required hygiene standards while significantly reducing conveyor lubrication water consumption.

The bottling hall floor is drier, reducing potential for worker slips and falls.

DryExx™ GF



CONVEYOR LUBE
WATER
SAVINGS
80%



REDUCTION
IN WATER
CONSUMPTION
of approx.
2.3 M
gallons
each year



SIGNIFICANTLY
CLEANER
BELTS

COD REDUCTION
OVER **35%**



SAFETY
DRIER FLOORS
less risk of accident

RESOURCES

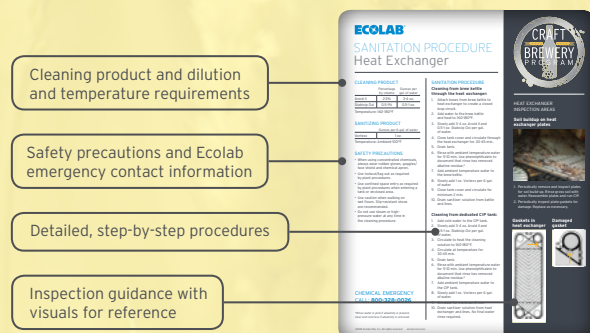
Just because you're independent, doesn't mean you couldn't use some outside help.

You wouldn't be in this business if you didn't have a natural curiosity, a drive for perfection and an exceptional work ethic. When you work with Ecolab, expect **relevant, convenient resources with easy access** so you can spend your time and energy on more important things. Like your next creation.



CLEANING & SANITIZING PROCEDURES

This is one area where you don't have to develop your own recipe from scratch. We've got **proven procedures to help ensure a clean and sanitized operation with every batch.**



AVAILABLE SANITATION PROCEDURES:

- Mash Tank
- Lager Tun
- Brew Kettle
- Fermentation/Maturation Tank
- Aging & Bright Beer Tanks
- Kegs
- Heat Exchanger
- Parts Cleaning & Soak
- Environmental Cleaning



TRAINING

In an operation like yours, everyone wears multiple hats. Luckily, we've got your back. **From sanitization advances to food safety updates**, we continue brewing up training programs to help keep you and your team up to speed.



AVAILABLE TRAINING:

- Chemical Safety
- Brewery Sanitation Basics
- Brewhouse Sanitization
- Brewery Cellar Sanitization
- Brewery Packaging Hall Sanitization
- Brewery CIP

WHAT'S BREWING AT ECOLAB

As the industry leader in brewery cleaning and sanitation programs, we help optimize brewing operations in the most sustainable way while protecting beloved brands.

Depth of Brewery Experience

Ecolab provides unmatched personal service and Total Plant Assurance to breweries of all sizes. In fact, we support many of the world's largest brands.

Industry Involvement & Support

- ◉ **ASBC:** Ecolab has been involved with ASBC since 2000. We are a corporate sponsor of the ASBC scholarship fund, have given presentations on brewery sanitation and CIP principles and have contributed articles on brewery sanitation to the ASBC newsletter.
- ◉ **MBAA:** Ecolab has been involved with MBAA since 1980. We have given numerous presentations on a variety of topics, including single-phase cleaning, brewery sanitizers, sustainability practices in brewing and packaging, and much more. We have also been teaching MBAA courses on sanitation for brewery and packaging operations for the past 15 years.

Meet our Brewery Expert Chad Thompson

You can learn a lot from people who've been there and done that. So when it comes to brewery cleaning, Chad Thompson is one of our go-to guys.



With over 20 years of experience, Chad joined our Brewery Business Research & Development team in 2007. His team focuses on the development and commercialization of new cleaning, sanitizing, lubrication and automation solutions for the brewery industry, providing support at the local and national level.

As an amateur brewer for 18 years, Chad understands the passion that drives the brewery industry. He is an active member of the industry, giving presentations and contributing in many ways to the Master Brewers Association of the Americas. He is committed to research and innovation, and has been granted four patents for his work.



ECOLAB. CLEANER, SAFER, HEALTHIER.

While you've been perfecting your craft, we've been perfecting ours.

PERSONAL SERVICE

We take pride in providing world-class service and technical support to our customers. You can count on Ecolab for ingenuity, know-how, mindfulness, diligence and unlimited resourcefulness.

In a world where challenges never quit, neither do we.

INNOVATION & EXPERTISE

Ecolab is a global leader in cleaning and sanitation, food safety, pest elimination and water and energy technologies. We serve food and beverage manufacturers, restaurants, hospitals, hotels and other industries that enhance quality of life.

You'll feel safe and secure, working with a leader.

1,300
SCIENTISTS

19 TECH
CENTERS

24,900
SALES & SERVICE
ASSOCIATES

OVER **6,300**
PATENTS

OVER **200**
PARTNERSHIPS

IN OVER **170**
COUNTRIES

Ecolab is committed to **finding solutions** to our world's biggest challenges.

providing &
protecting
what is **vital**



CLEAN
WATER



SAFE
FOOD



ABUNDANT
ENERGY



HEALTHY
ENVIRONMENTS



To learn more, visit
www.Ecolab.com

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