



# ESL/ASEPTIC INNOVATION SYSTEMS:

**THERMA-STAT & THERMA-DOSE**

The New Era in ESL/Aseptic Processing

S&P  
SYSTEMS &  
PROCESS

# THE STATCO-DSI™ DIFFERENCE

Statco-DSI custom designs process solutions to best fit your needs. We strive to keep you competitive in your marketplace – embracing the fact that your business succeeds or fails based on three basic principles: Product Quality, Plant Throughput, and Operational Efficiency.

Our system design approach always takes these principles into account. You may hire us as an outside vendor, but you'll feel like we're on your staff because of our commitment to providing you with the best customized solution for your particular product and production needs. We view our business relationship as a partnership because we know that in today's business climate, if you're not successful, we're not successful. Our dedicated team of ESL/Aseptic experts and our nationwide network of seasoned sanitary process professionals will provide you:

## > Process Knowledge

Our team of experienced engineers have walked in your shoes. We not only design and build state of the art production facilities, but in the past, we've managed them, run them, and maintained them. Our staff consists of many ex: plant engineers, plant managers, maintenance managers as well as senior operations leadership. We put this institutional knowledge and hands-on process experience to work for you—assuring your project's success.

## > Technical Expertise

We are proud to have 60+ exemplary engineers on staff with a wealth of product and process knowledge. The cohesiveness of this group is emphasized by extremely low turnover, ensuring a high level of commitment to your project.

## > Design Flexibility

Off-the-shelf solutions make an equipment manufacturer's job easier, not yours. We approach every project as a unique opportunity with unique challenges. From individual components to complete, turnkey systems. Custom process design is what we do and we work hard to do it better than anyone else.



## > Post-Project Service Department

We are proud to offer a dedicated team of capable technicians to service your equipment after the project has concluded—24 hours a day, 7 days a week. We provide calibration of instrumentation, valve and pump rebuilds, in addition to troubleshooting, hands on operator training and much more. Statco-DSI is a one stop shop for all of your service needs!

## EXCELLENCE IN ESL AND ASEPTIC

**Statco-DSI** is your clear choice for expertise in direct and indirect heating ESL/Aseptic systems for low and high acid foods. Whether your product is intended for refrigerated or non-refrigerated retail, vending machines, or institutional distribution for food service, we can help you choose the right system to give you longer shelf life and a better value-added product.

ESL and aseptic processing gives you the ability to expand your distribution area with the assurance that your product will deliver the freshness and shelf life consumers demand.

**Statco-DSI's Therma-Stat ESL/Aseptic Processing Systems** are built with readily available, domestically supplied components for long term ease-of-maintenance and reduced downtime. We build our systems in-house to control the project timeline and ensure on-time delivery. In addition to these key advantages, our systems offer exclusive features:

### Product-to-product regeneration

Raw product heated with ultra-pasteurized product significantly reduces energy usage and system complexity

### Seamless routing

Unrestricted flow to multiple destinations—both maximizing production and reducing scheduling conflicts

### Optimized design performance

Reduces plant utility usage, costs, and environmental impact

### Specialized HMI graphics

Event logging and trending aid in system troubleshooting

## Product Applications:

### HIGH ACID

- Juices
- Smoothies
- Purees
- Particulate products
- Acidified products
- Broths and stocks

### LOW ACID

- Fluid milk
- Ice cream mixes
- Heavy whipping cream
- Non-dairy creamers
- Non-dairy whipped topping
- Plant-based beverages
- Whey-based products
- Enhanced protein dairy products

In addition to the proprietary equipment we design and manufacture in-house, Statco-DSI represents over one hundred manufacturers in the food, beverage, dairy, and biopharm industries. Our full line of equipment includes:

- CASERS
- FILLERS
- VALVES
- SEPARATORS
- HOMOGENIZERS
- HEAT EXCHANGERS
- CONVEYOR SYSTEMS
- INSTRUMENTATION/CONTROLS
- CUSTOM TANKS, VESSELS, AND SILOS
- COMPLETE TURNKEY PROCESS SYSTEMS

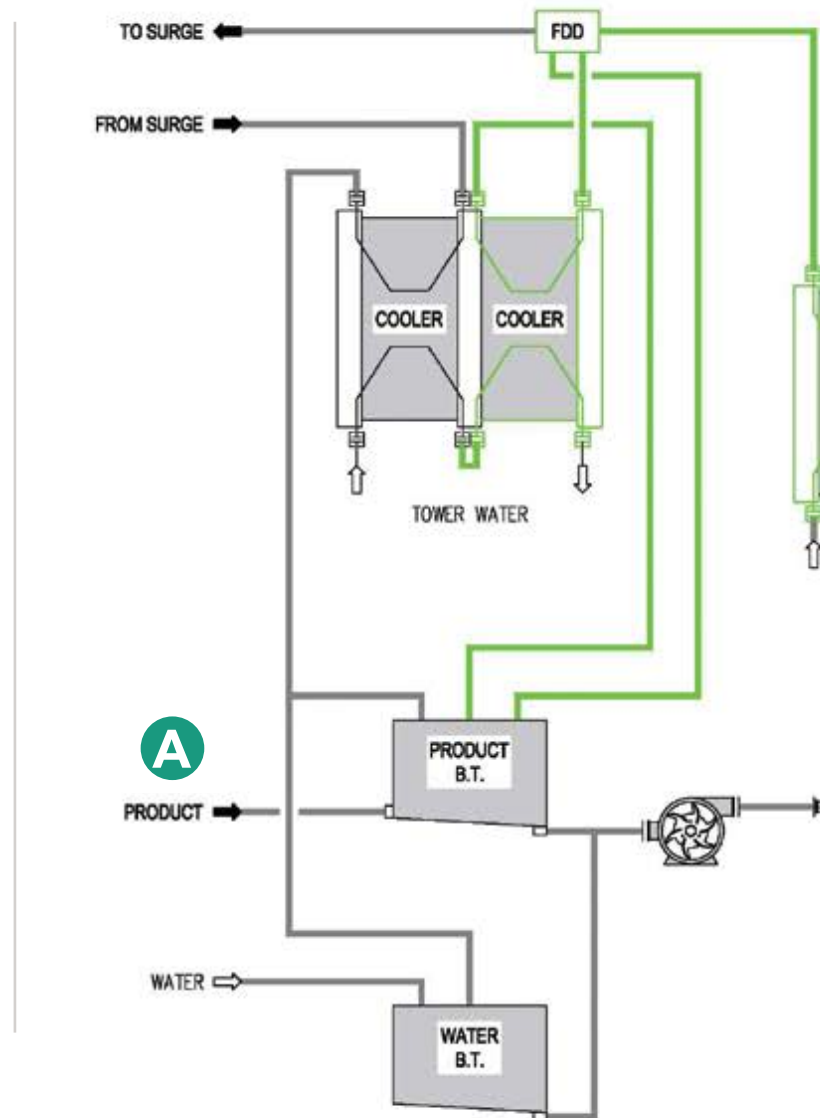
Whether you need an entire system or to integrate one of our components into an existing line, let us link your good name with the best names in the sanitary processing industry.



# THE NEW ERA IN ESL/ASEPTIC PROCESSING

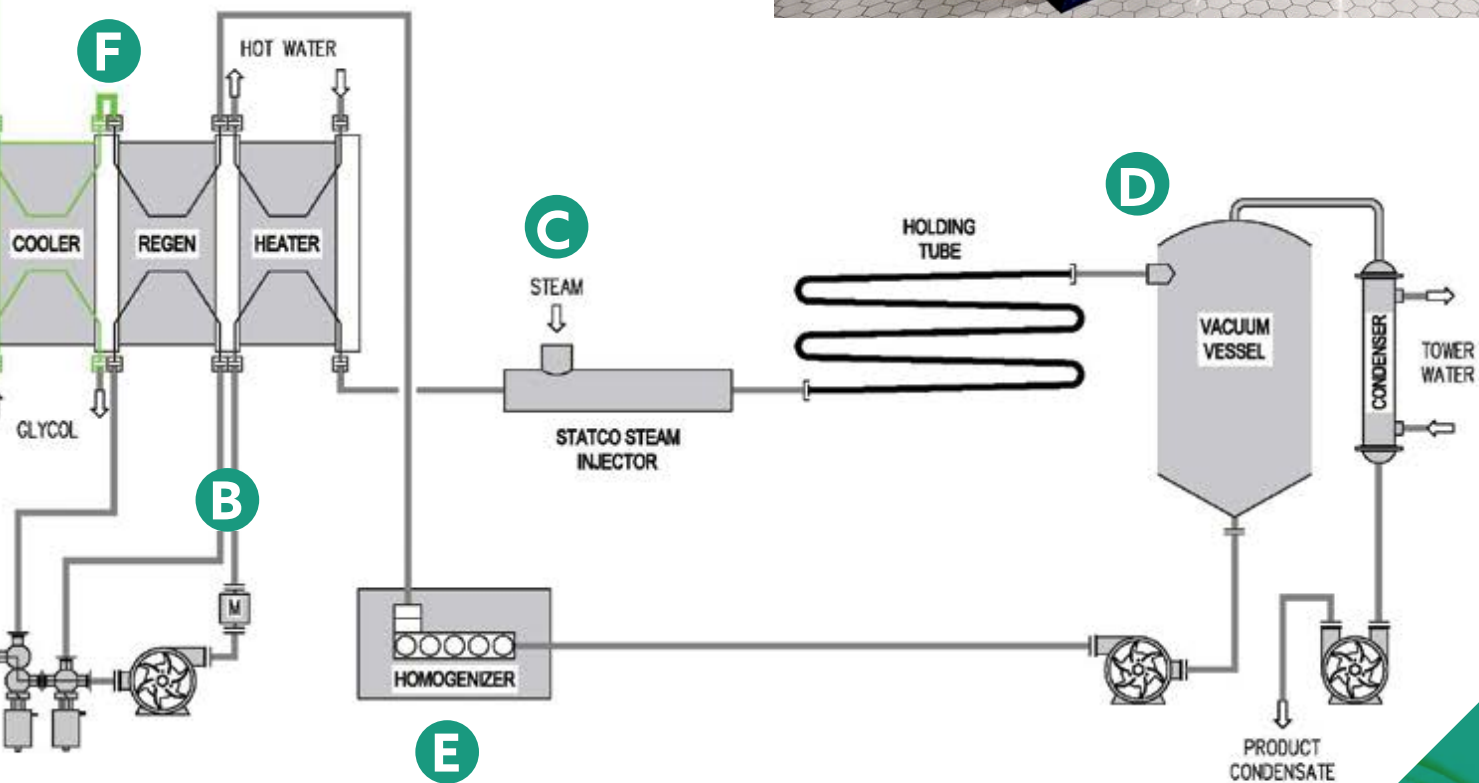
## THERMA-STAT

- A** Raw product from the system balance tank undergoes regeneration heating versus ultra-pasteurized product exiting the flash chamber in a plate heat exchanger (PHE).
- B** Raw product exiting the PHE is metered by a legal timing pump through the heater section of the PHE and discharged into the culinary steam injector.
- C** Culinary steam is injected directly into the product stream to produce the desired holding temperature prior to routing through the legal holding tube.
- D** Product exits the holding tube into a flash chamber where the controlled vacuum environment instantly reduces the product temperature and removes the product vapor that was added as culinary steam.
- E** Product exiting the flash chamber is routed through an aseptic homogenizer en route to the ultra-pasteurized side of the PHE, where it undergoes regeneration cooling.
- F** Ultra-pasteurized product exiting the regenerator undergoes final cooling versus glycol prior to routing past the legal flow diversion device (FDD) en route to the final product destination.



The Therma-Stat's smooth, quiet operation extends the life of your system between scheduled preventative maintenance routines. And with longer run times, reduced maintenance, and reduced product loss, our ESL/Aseptic systems deliver a maximum return on your investment.

To be on the **leading edge** of your marketplace, you need the **cutting edge** advantages of Statco-DSI's **Therma-Stat**



 **STATCO-DSI™**



# SETTING THE STANDARD

## THERMA-STAT

When you choose our Therma-Stat for your ESL/Aseptic processing line, you'll benefit from standard design features that are only optional with competitors' systems.

- **On-Site Commissioning**  
including start-up assistance and operator training
- **Phase Detection**  
of both product entering the UHT and at all product destinations
- **Utility Monitoring**
  - Steam flow and steam quality
  - Tower water flow and load
  - Glycol flow and load
  - Process water flow and consumption
- **Seamless Transitions**  
between sterilization, production, AIC, and CIP with no field swings





The Therma-Stat has the **highest energy efficiency and reliability** in the ESL/Aseptic marketplace

 **STATCO-DSI™**

# THERMA-STAT



## We are here for you

- 24-Hour Customer Service
- Experienced Technicians
- Reduced Downtime and Equipment Failures
- Prevent & Correct Problems
- Machine Analysis
- Visual Inspection for Worn and/or Broken Parts
- Machine Adjustments
- Spare Parts Inventory Evaluation

*“Statco has been really great with support. We have 24 hour contact if we get in a jam. . . we know who to contact, how to get a hold of folks, and they’ve got a wealth of knowledge there that’s been super helpful . . . so we have things running in the right order and are optimizing equipment.”*

RUSS LUCAS, SUNTADO DAIRY

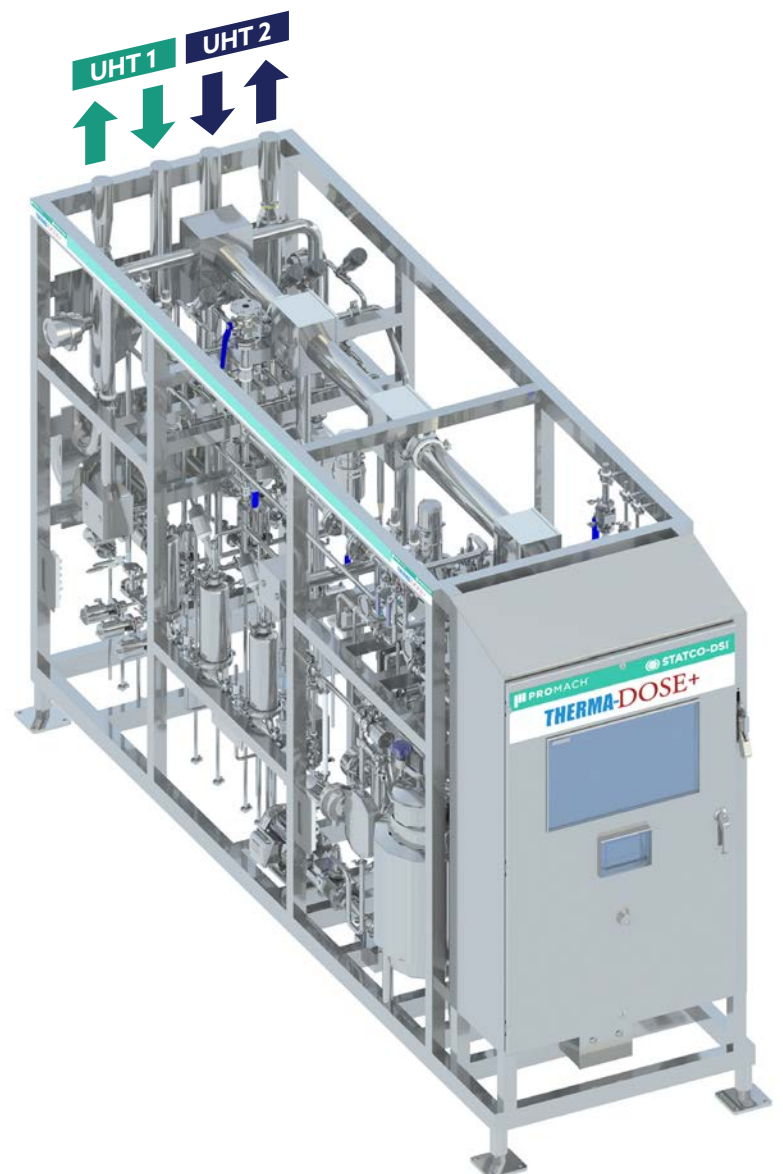
# INNOVATIVE ENZYME DOSING

## THERMA-DOSE

Statco-DSI's Therma-Dose is designed to add enzymes directly to the ESL/Aseptic stream between the Therma-Stat and Therma-Surge tank, with our Therma-Dose+ being capable of seamlessly connecting multiple UHTs to one dosing system and one dosing system to multiple surge tanks.

The Therma-Dose provides the following benefits:

- > Reduced Enzyme Usage
- > Water and Chemical Conservation
- > Accurate Dosing  
capable of automatically adjusting dosing commensurate to multiple processing rates
- > Independent Sterilization and CIP
- > Quick Turnaround Times
- > Electronic Chart Recording



**CONTACT US TO GET STARTED TODAY**



**ESL/ASEPTIC CENTER OF EXCELLENCE**

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Statco-DSI.com







Statco-DSI was founded in 1982 by industry experts ranging in experience from factory sales managers to plant engineers, maintenance management, and operations leadership.

Over the past 40+ years, we've grown significantly through increased sales, expanded product offerings, close factory relationships, and timely business acquisitions. From 12 offices located coast-to-coast, we are recognized as the largest privately held distributor and systems integrator in the United States, with annual sales of approximately \$300+ million.

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