Master Your Induction Cap Sealer’s Features & Options

Improve Output & Slash Rejects by Mastering Your Cap Sealer’s Features & Options
Today’s Panel

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Webinar Overview

Sealing energy basics
Webinar Overview

Sealing energy control

![Image of Modify Recipes interface with 9 OZ BOTTLE, Power Level 89, and Alarm Level 2.]
Webinar Overview

Sealing energy monitoring
Webinar Overview

Inspection/Detection Options
Webinar Overview

Electrically integrating your cap sealer
Knowledge You’ll Gain

Customer and field service feedback
Knowledge You’ll Gain

Better understanding of the process to increase productivity
Knowledge You’ll Gain

Focus on actionable operation tips
Knowledge You’ll Gain

Options you should consider
Knowledge You’ll Gain

Stay Tuned
For a Special Offer
At the end of the webinar
What does the induction sealer do?
Keys to a successful seal

Pressure  Heat  Time
Keys to a successful seal

Pressure

Cap Torque
Keys to a successful seal

Heat

Cap Sealer
Keys to a successful seal

Time

Line Speed
Heat and Time

The relationship is not linear
How do we create sealing energy?

Low Frequency AC

Converted to DC

Then

Converted to high frequency AC
How do we create sealing energy?

Converted to a directed magnetic field – sealing energy
Factors affecting required sealing energy

Air Gap – sealing head to cap/foil distance
Factors affecting required sealing energy

Distance – top of cap to foil
Factors affecting required sealing energy

Cap application torque
- Consistent
- Generally caps with less torque require more energy
Factors affecting required sealing energy

**Material variations**

- Bottle material changes
- Land area
- Bottle & cap in spec
- Liner changes
We highly recommend watching:

Optimizing Induction Cap Sealer Productivity by Setting up an Operating Window

www.enerconind.com/sealing
Are you certain that you are using the correct sealing head for your application?
First step in controlling sealing energy: Choose the right sealing head for the application
First step in controlling sealing energy:
Choose the right sealing head for the application

All-in-One Universal Sealing Heads
Electrically Integrating your Sealer
Controlling sealing energy

- Output Control
- Start/Stop Control
- Monitor Output
- Fault Monitoring
Are you confident that your operators always use your company’s predetermined cap sealer power level?
Electrically Integrating your Sealer

Power Control Modes

Power Control: **Local**

Up/Down Buttons

When to use: You trust your operators & additional options are not feasible
Electrically Integrating your Sealer
Power Control Modes

Power Control: **Remote**
Connected to
Customer Supplied Control

When to use: You have the ability to supply a remote signal for power level
Electrically Integrating your Sealer
Power Control Modes

Power Control: **Recipe**

Local Recipe Control
Available with Super Seal Touch

When to use: Password protected prevents operator from overriding established QC recipes.
Electrically Integrating your Sealer

Power Control Modes

Power Control: **Network**
(Remote Control & Monitoring)

Connected to Customer Network
Available with Super Seal Max and Super Seal Touch

When to use: Your induction sealer is part of completely integrated line
Monitoring Sealing Energy

How do I know if the sealer is generating the power required?
Monitoring Sealing Energy

How do I know if the sealer is generating the power required?

• Every Sealer has a built-in circuit
• Sealing Alarm Level or LSI (Loss of Sealing Indicator)

Packagers may connect either a stack light or use the dedicated Alarm Level contact to some other custom alarm protocol.
Monitoring Sealing Energy
How do I know if the sealer is generating the power required?

Optional 0-10 volt feedback
Monitoring Sealing Energy

What would cause the sealing energy to drop below the alarm level?

• Operator presses the stop button or sealer shuts off
• Operator changes output setting below alarm level
• External drop in the power feeding the induction sealer (rare)
• There could be an internal issue (very rare)
Electrically Integrating your Sealer
Start and Stop Control Modes

• Local Control
• Remote Control
• Network
Electrically Integrating your Sealer
Start and Stop Control Modes

Local Control
Start Stop Buttons on Control Panel
Electrically Integrating your Sealer
Start and Stop Control Modes

Remote Control
Starts & Stops based on customer supplied signal
Electrically Integrating your Sealer
Start and Stop Control Modes

Network Control
Available with Remote Control and Monitoring
Other Options that Packagers find Beneficial

Operator Lockout with Password Protection
Other Options that Packagers find Beneficial

Fault Logging & Data Collection
Inspection & Detection Options

Tool sets to ensure your containers have seals in their caps and alerts to line conditions than can create downtime
Motion Detection

- Auto-start
- Bottle backup
- Stalled bottle
Foil & Cap Detection

- Missing foil
- Missing cap
- High cap
- Cocked cap
Inspection & Detection Combinations

• Bottle backup
• Foil detection
• Motion & foil detection
• Stalled bottle detection
• Cap inspection
Rejections

• Integrated Ejector
• Signal for your own rejection
Which inspection options could most benefit your operation?
Webinar Review

Boost Productivity & Slash Rejects

• Understanding the sealing process
• Set up an operating window
• Take advantage of Sealing Alarm Circuitry
• Choose the right Power Control Mode for Your operation
• Choose the right Start/Stop control mode for your operation
• Take advantage of inspection systems to enhance quality
• Consider a rejection system to eliminate faulty containers
For more information please contact:

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