



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Improve Output & Slash Rejects** **by Mastering Your Cap Sealer's Features** **& Options**





# Master Your **Induction Cap Sealer's** **Features & Options**

## Today's Panel



Jeff LaGrange  
Cap Seal Product Manager



Ryan Schuelke  
Sales Director



# Master Your **Induction Cap Sealer's** **Features & Options**

## Webinar Overview

# Sealing energy basics





# Master Your **Induction Cap Sealer's** **Features & Options**

## Webinar Overview

# Sealing energy control

**Modify Recipes**

Name	<b>9 OZ BOTTLE</b>
Power Level	<b>89</b>
Alarm Level	<b>2</b>

 Home

System Idle - Power Setting 50





# Master Your **Induction Cap Sealer's** **Features & Options**

## Webinar Overview

# Sealing energy monitoring





# Master Your **Induction Cap Sealer's** **Features & Options**

## Webinar Overview

# Inspection/Detection Options





# Master Your **Induction Cap Sealer's** **Features & Options**

## Webinar Overview

Electrically integrating your cap sealer





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Knowledge You'll Gain**

Customer and  
field service feedback





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Knowledge You'll Gain**

Better understanding  
of the process to  
increase productivity



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Knowledge You'll Gain**

Focus on actionable  
operation tips



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Knowledge You'll Gain**

Options you  
should consider



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Knowledge You'll Gain**

Stay Tuned

For a Special Offer

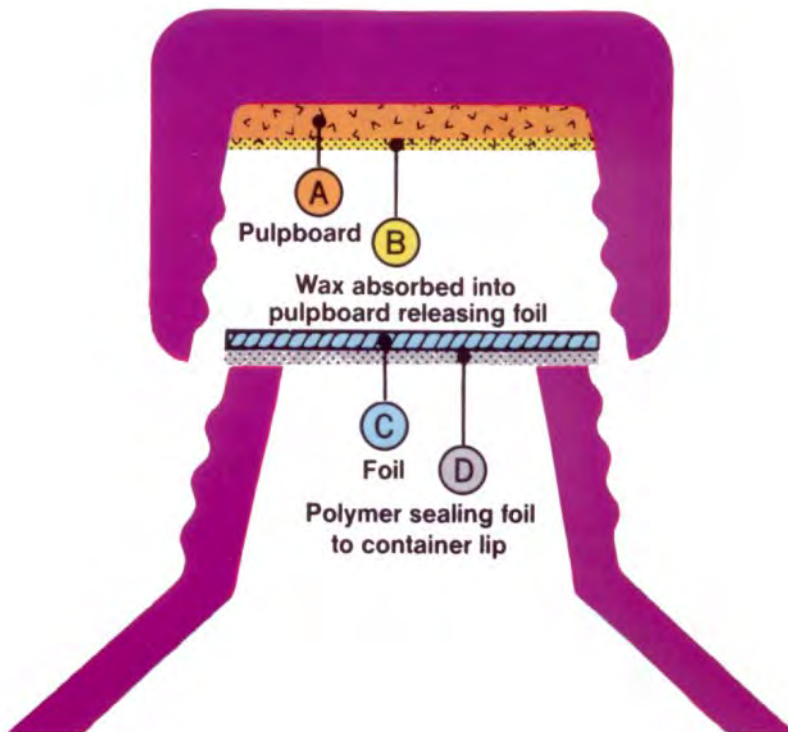
At the end of the webinar





# Master Your **Induction Cap Sealer's** **Features & Options**

## What does the induction sealer do?

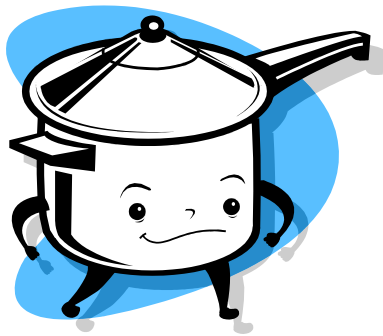




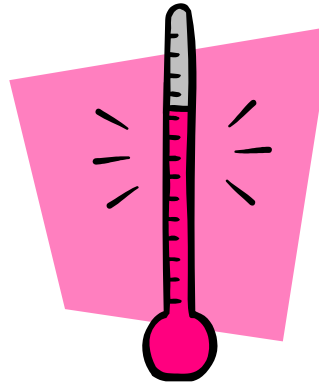
# Master Your **Induction Cap Sealer's** **Features & Options**

## Keys to a successful seal

**Pressure**



**Heat**



**Time**

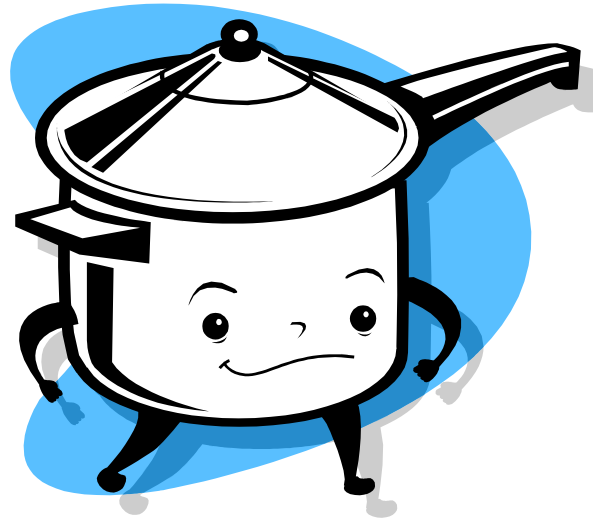




# Master Your **Induction Cap Sealer's** **Features & Options**

## Keys to a successful seal

# Pressure



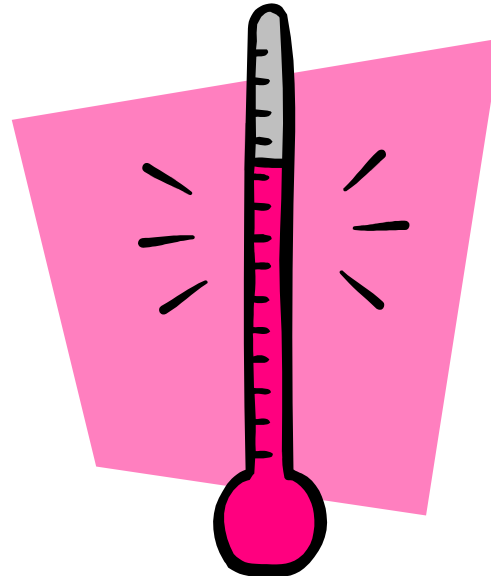
# Cap Torque



# Master Your **Induction Cap Sealer's** **Features & Options**

## Keys to a successful seal

# Heat



# Cap Sealer





# Master Your **Induction Cap Sealer's** **Features & Options**

**Keys to a successful seal**

# Time



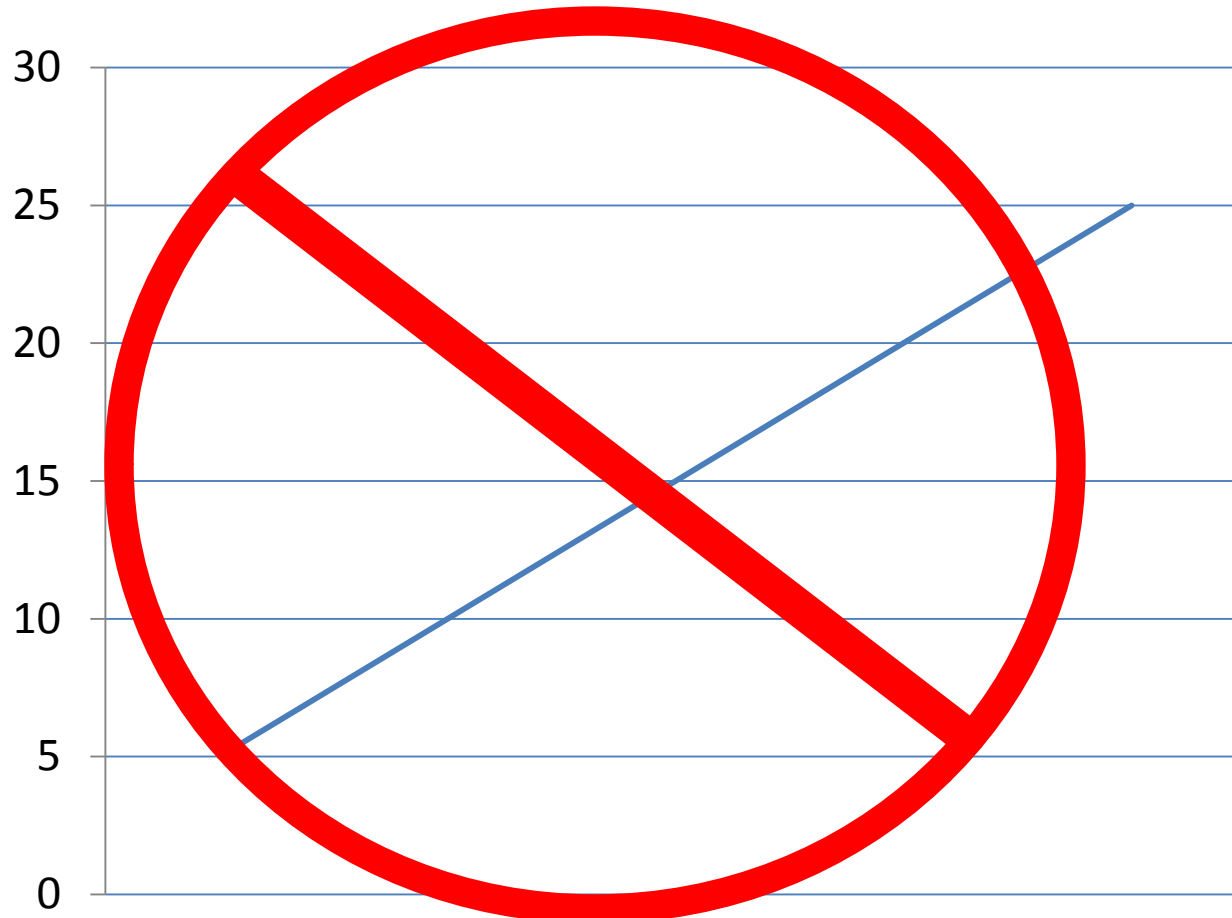
# Line Speed



# Master Your **Induction Cap Sealer's** **Features & Options**

## Heat and Time

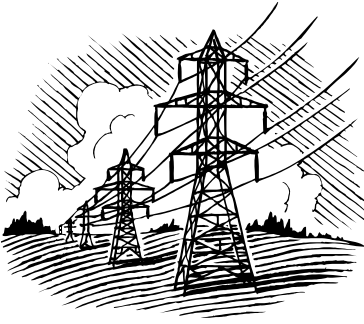
The relationship is not linear





# Master Your **Induction Cap Sealer's** **Features & Options**

## How do we create sealing energy?



Low Frequency AC



Converted to DC

Then

Converted to high  
frequency AC



# Master Your **Induction Cap Sealer's** **Features & Options**

## How do we create sealing energy?



Converted to a directed magnetic field – sealing energy





# Master Your **Induction Cap Sealer's** **Features & Options**

## Factors affecting required sealing energy

Air Gap – sealing head to  
cap/foil distance





# Master Your **Induction Cap Sealer's** **Features & Options**

## Factors affecting required sealing energy

Distance – top of cap to foil





# Master Your **Induction Cap Sealer's** **Features & Options**

## Factors affecting required sealing energy

### Cap application torque

- Consistent
- Generally caps with less torque require more energy





# Master Your **Induction Cap Sealer's** **Features & Options**

## Factors affecting required sealing energy

### Material variations

- Bottle material changes
- Land area
- Bottle & cap in spec
- Liner changes



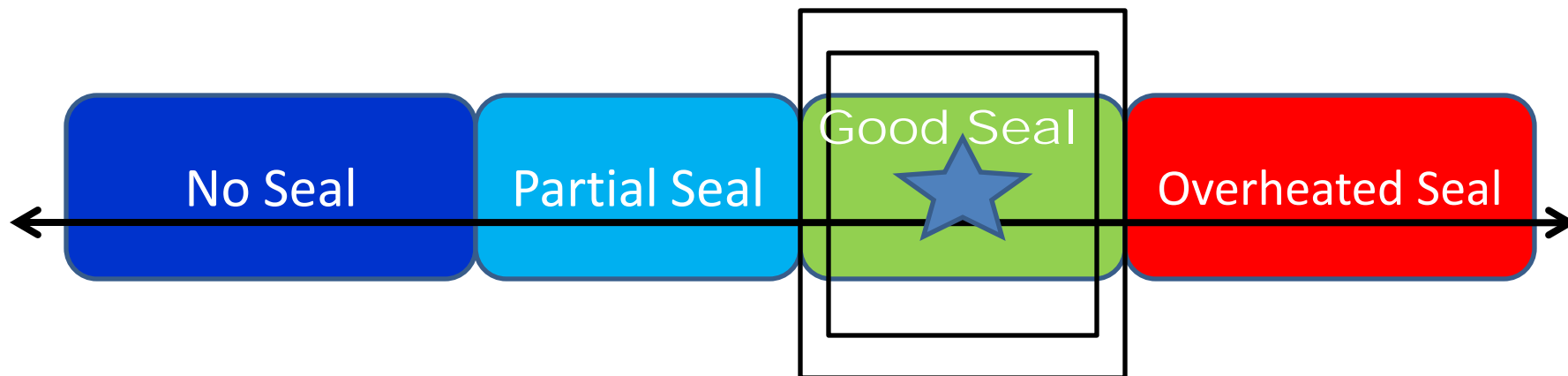




# Master Your **Induction Cap Sealer's** **Features & Options**

**We highly recommend watching:**

## **Optimizing Induction Cap Sealer Productivity by Setting up an Operating Window**



[www.enerconind.com/sealing](http://www.enerconind.com/sealing)





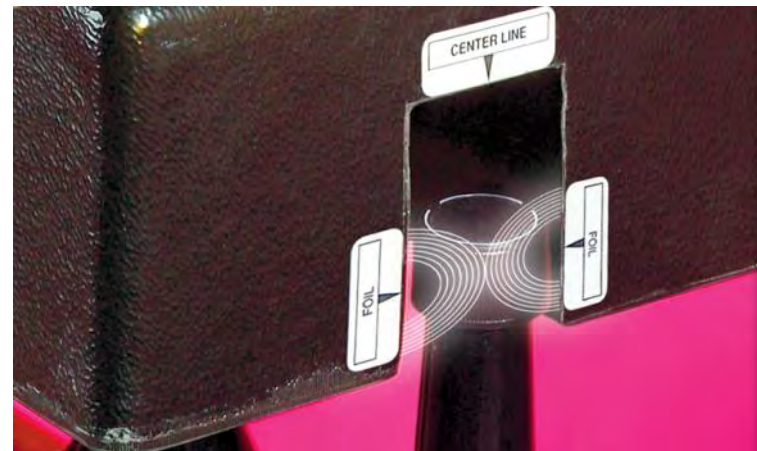
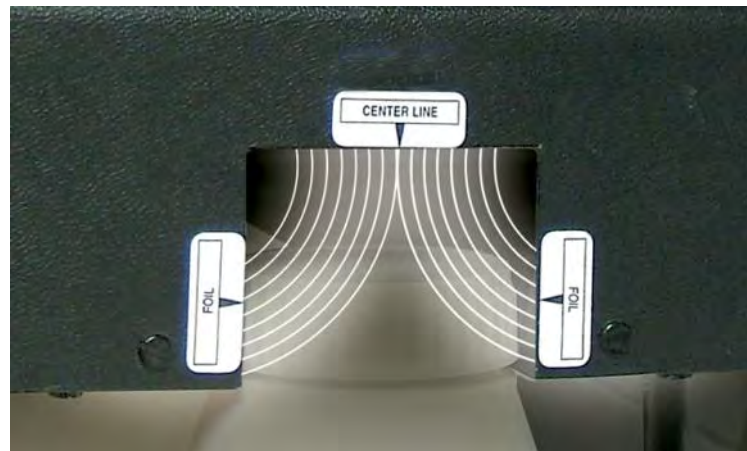
# Master Your **Induction Cap Sealer's** **Features & Options**

**Are you certain that you are using  
the correct sealing head  
for your application?**



# Master Your **Induction Cap Sealer's** **Features & Options**

**First step in controlling sealing energy:**  
**Choose the right sealing head for the application**





# Master Your **Induction Cap Sealer's** **Features & Options**

**First step in controlling sealing energy:  
Choose the right sealing head for the application**



**All-in-One Universal Sealing Heads**





# Master Your **Induction Cap Sealer's** **Features & Options**

## Electrically Integrating your Sealer





# Master Your **Induction Cap Sealer's** **Features & Options**

## Controlling sealing energy



- Output Control
- Start/Stop Control
- Monitor Output
- Fault Monitoring





# Master Your **Induction Cap Sealer's** **Features & Options**

**Are you confident that your operators  
always use your company's predetermined  
cap sealer power level?**



# Master Your **Induction Cap Sealer's** **Features & Options**

## **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



# Master Your **Induction Cap Sealer's** **Features & Options**

## 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



# Master Your **Induction Cap Sealer's** **Features & Options**

## Electrically Integrating your Sealer Power Control Modes

Power Control: **Recipe**

Local Recipe Control  
Available with Super Seal Touch

The screenshot shows a control interface titled "Modify Recipes". It contains three input fields: "Name" with the value "9 OZ BOTTLE", "Power Level" with the value "89", and "Alarm Level" with the value "2". To the right of these fields is a green "Home" button with a house icon. At the bottom of the interface, a status bar displays "System Idle - Power Setting 50".

Field	Value
Name	9 OZ BOTTLE
Power Level	89
Alarm Level	2

System Idle - Power Setting 50

When to use: Password protected prevents operator from overriding established QC recipes.





# Master Your **Induction Cap Sealer's** **Features & Options**

## **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





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Monitoring Sealing Energy**

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



# Master Your **Induction Cap Sealer's** **Features & Options**

## **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





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Monitoring Sealing Energy**

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

**Optional 0-10 volt feedback**



# Master Your **Induction Cap Sealer's** **Features & Options**

## **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)



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Electrically Integrating your Sealer Start and Stop Control Modes**

- Local Control
- Remote Control
- Network







# Master Your **Induction Cap Sealer's** **Features & Options**

## **Electrically Integrating your Sealer Start and Stop Control Modes**

### **Local Control**

Start Stop Buttons on Control Panel





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Electrically Integrating your Sealer Start and Stop Control Modes**

### **Remote Control**

Starts & Stops based on customer supplied signal





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Electrically Integrating your Sealer Start and Stop Control Modes**

### **Network Control**

Available with Remote Control  
and Monitoring







# Master Your **Induction Cap Sealer's** **Features & Options**

## Other Options that Packagers find Beneficial

Operator Lockout with Password Protection










# Master Your **Induction Cap Sealer's** **Features & Options**

## Other Options that Packagers find Beneficial





### Fault Logging & Data Collection

#### Fault Log


09-08-2009	12:09	Amp Trip Fault	
09-23-2009	16:14	Stop Fault	
10-03-2009	07:45	Interlock Fault	
10-08-2009	15:30	Min Freq Fault	

 Back    System Idle - Power Setting 85

#### Data Overview Diagnostic

 Power Supply Data	<b>Total Containers</b> <b>8,437</b>	<b>High Caps</b> <b>33</b>	
 Fault Log	<b>Missing Foils</b> <b>12</b>	<b>Ejected Containers</b> <b>45</b>	

Touch text to reset number

 Back    System Running - Power Setting 85



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Inspection & Detection Options**

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



# Master Your **Induction Cap Sealer's** **Features & Options**

## **Motion Detection**

- Auto-start
- Bottle backup
- Stalled bottle





# Master Your **Induction Cap Sealer's** **Features & Options**

## **Foil & Cap Detection**

- Missing foil
- Missing cap
- High cap
- Cocked cap







# Master Your **Induction Cap Sealer's** **Features & Options**

## Inspection & Detection Combinations

- Bottle backup
- Foil detection
- Motion & foil detection
- Stalled bottle detection
- Cap inspection





# Master Your **Induction Cap Sealer's** **Features & Options**

## Rejections

- Integrated Ejector
- Signal for your own rejection





# Master Your **Induction Cap Sealer's** **Features & Options**

**Which inspection options could most benefit your operation?**



# Master Your **Induction Cap Sealer's** **Features & Options**

## 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





# Master Your **Induction Cap Sealer's** **Features & Options**

For more information please contact:



## **Enercon Industries Corporation**

Jeff LaGrange Ryan Schuelke



[jlagrange@enerconmail.com](mailto:jlagrange@enerconmail.com) [rschuelke@enerconmail.com](mailto:rschuelke@enerconmail.com)

+ 1 (262) 255-6070

[www.enerconind.com/sealing](http://www.enerconind.com/sealing)