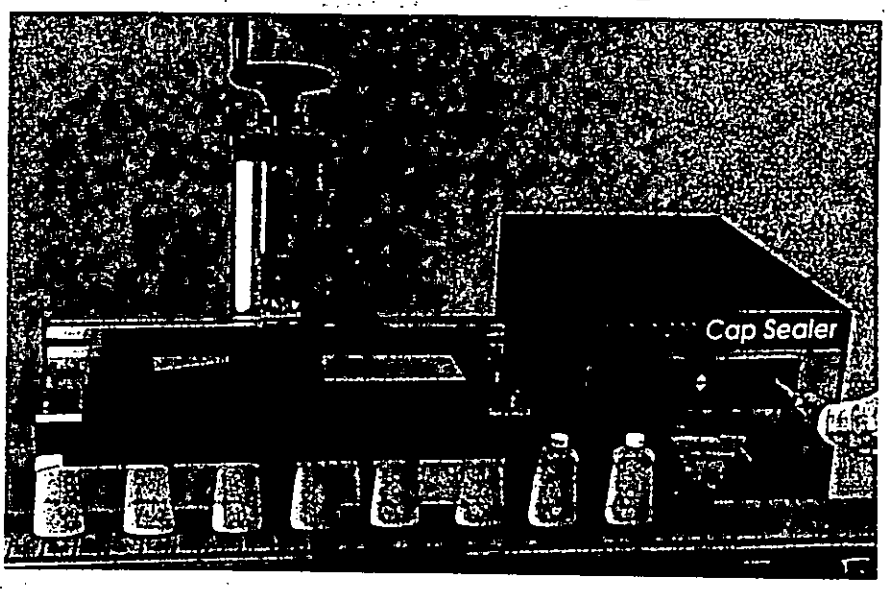
Enercon Induction Sealing System

Integral:
The New Industry Standard in a Rugged, Functional Package



- **State-of-the-Art Electronics:** Our third generation solid-state design provides the latest in proven, high reliability components and circuits. Both power and control loops incorporate advanced operative, protective and diagnostic elements and circuits to provide a new level of operational reliability and efficiency.
- **Unique Coil Design:** Enercon's coil design capability is second-to-none in the industry. Our new standard coil design (Patent Pending) increases electromagnetic power coupling into the foil. As a result, uniform currents are induced across large mouth inner seals creating consistent seals with complete wax melt and separation of foil from pulpboard liner. This coil design capability allows Enercon to offer 3-standard coils with a range of capability to cover over 90% of all sealing applications. In addition, Enercon offers custom coil design to meet the specific needs of unusual applications reliably and efficiently.
- **Top Total Performance:** Enercon's excellence in power conversion with 95% efficiency and coil design for superior electromagnetic coupling permits effective operation at high line speeds with optimal power usage. **Line speeds exceeding 300 fpm** can be achieved depending upon closure size, innerseal type and container material.
- **Functional Package:** This third generation solid-state induction sealer combines control and power supply in an air-cooled NEMA 1 or a sealed NEMA 4 enclosure that can be integrally mounted on a mobile water recirculator for easy installation, and almost no water usage. Requiring minimal space, the compact sealing coil is easily mounted over the conveyor. Interconnect cables supply power and water lines supply cooling to the sealing coil from the power supply/water recirculator.

Features

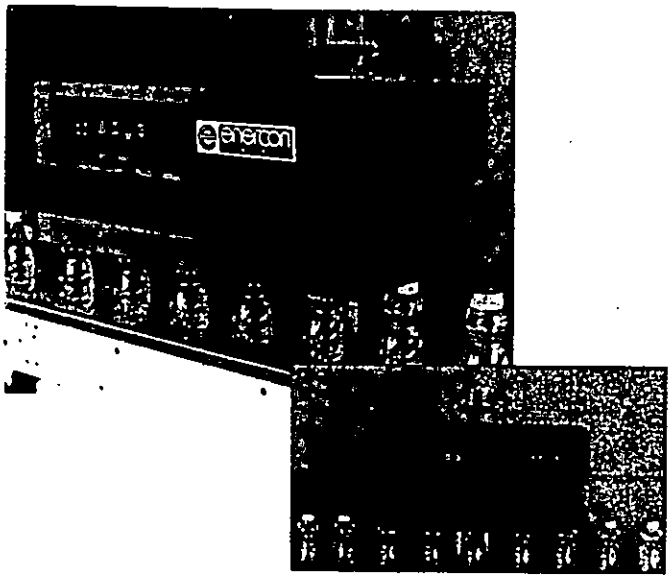
- Latest Transistor Power Components for 95% Efficiency
- Automatic Closed-Loop Circuits for Frequency & Flux Density Control
- Automatic Self-Protection and Self-Diagnostic Circuits
- Latest Digital Control Circuits
- Advanced Sealing Coil Design (Patent Pending)
- Reliable, High Speed Performance: Up to 300 fpm.
- Automatic Wide Load Matching Capability
- Air-cooled NEMA 1 or Sealed NEMA 4 Enclosure
- Second-to-None Customer Support & Service

Options

1. ***Adjustable Sealing Coil Support*** — easy adjustment to a variety of containers.
2. ***Water Recirculator*** — water-to-air heat exchanger reduces costly cooling water usage.
3. ***Motion/Foil Detector Group*** — shuts off power if containers stop under sealing coil & detects missing foil liners.
4. ***Remote Start*** — permits stop/start control via external commands for automated operation.
5. ***Loss of Sealing Indicator*** — alarm circuit contact closure if sealing power falls below preset level.
6. ***Hand-Held Coil*** — allows automatic timed sealing of individual containers.
7. ***Purged Sealing System*** — pressurized cabinet for sealing in hazardous environment.

THOS. W MACKAY & SON LTD
9205 SHAUGHNESSY STREET, VANCOUVER, B.C.
V6P 6R5 FAX (604) 324-6566

Model	Output Rating	Input 50/60 Hz Volts ±10%	Amps	Dimensions (approximate) H	W	D	Weight	Cable Length
3100	1 KW	115, 1Ø	15	11 (279)	24 (610)	12 (305)	55 (25)	0.35 (1.3)
3200	2 KW	230, 1Ø	15	11 (279)	24 (610)	12 (305)	55 (25)	0.50 (1.9)
3300	3 KW	230, 3Ø	12	11 (279)	24 (610)	12 (305)	55 (25)	1.00 (3.8)
Air-Cooled Power Supply. NEMA 4 enclosure. Suitable for Washdown.								

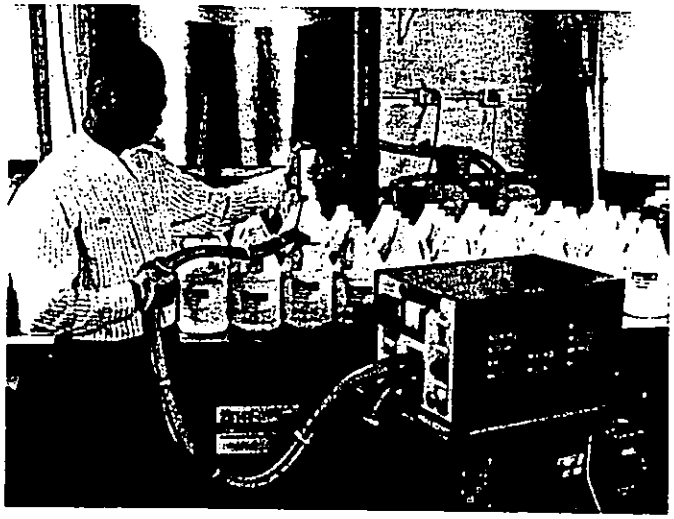


Coil Data

Coil Type	Opening	Max. O.D.	Bottle Diameter
3270	Tunnel 1.9 in. (49 mm)	1.7 in. (43 mm)	0.4 to 1.5 in. (10 to 38 mm)
3274	Tunnel 3 in. (77 mm)	2.8 in. (71 mm)	1.7 to 2.5 in. (43 to 63 mm)
3275	Flat	5 in. (130 mm)	2.8 to 4.7 in. (70 to 120 mm)

Laboratory/Low Production Induction Sealer

Enercon's laboratory induction sealer provides all the advanced electronic features of our complete line along with a full 1kW of power. Timer control for automatic sealing cycle and a variety of hand-held coils allows wide range sealing application for lab testing or contract packager.



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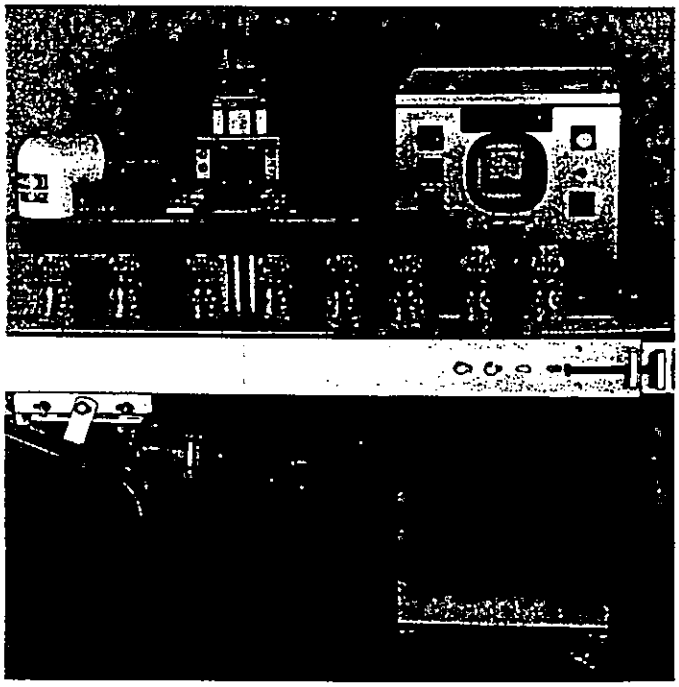
THOS. W. MACKAY & SON LTD.

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(Milwaukee Metro Area) • Telephone (414) 255-6070 • FAX (414) 255-7784

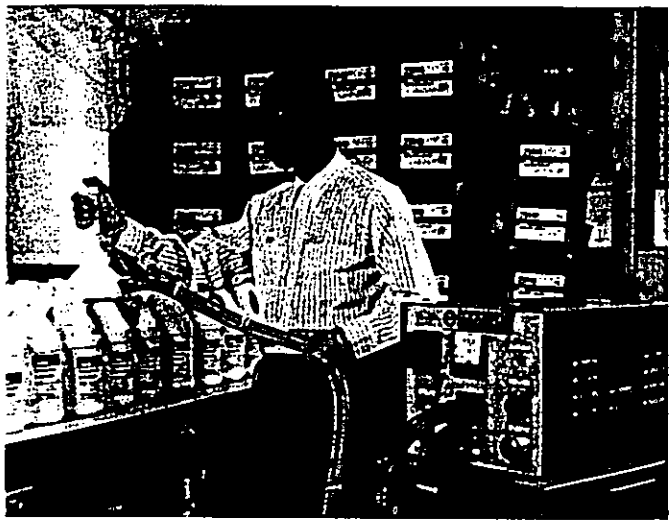
Enercon Ener-Seal™ Induction Cap Sealing Capability

				Power Supply Only					P/S With Water Recirculator			
Model	Power	Voltage	Amps	Min. Cap Dia.	Max. Cap Dia.	Max. Container Height	Power Supply Weight	Power Supply Shipping Weight	Min. Cap Dia.	Max. Cap Dia.	Max. Container Height	Power Supply Weight
3110 •	1 KW	115, 1Ø	15	13.5 (343)	16.5 (419)	23.0 (584)	63 (29)	0.35 (1.3)	44.0 (1,118)	17 (432)	24 (610)	153 (69)
3140 †	1 KW	115, 1Ø	15	16.0 (406)	17.0 (432)	24.0 (610)	110 (50)	0.35 (1.3)	46.5 (1,181)	17 (432)	24 (610)	200 (91)
3210 •	2 KW	230, 1Ø	15	13.5 (343)	16.5 (419)	23.0 (584)	63 (29)	0.50 (1.9)	44.0 (1,118)	17 (432)	24 (610)	153 (69)
3240 †	2 KW	230, 1Ø	15	16.0 (406)	17.0 (432)	24.0 (610)	110 (50)	0.50 (1.9)	46.5 (1,181)	17 (432)	24 (610)	200 (91)
3310 •	3 KW	230, 3Ø	12	13.5 (343)	16.5 (419)	23.0 (584)	63 (29)	1.00 (3.8)	44.0 (1,118)	17 (432)	24 (610)	153 (69)
3340 †	3 KW	230, 3Ø	12	16.0 (406)	17.0 (432)	24.0 (610)	110 (50)	1.00 (3.8)	46.5 (1,181)	17 (432)	24 (610)	200 (91)

• Air-Cooled Power Supply, NEMA 1 enclosure. Available with Aluminum (AL) or Stainless Steel (SS) Cover.
† Water-Cooled Power Supply, Stainless Steel NEMA 4 enclosure. Suitable for Washdown.



NOTE: The photographs on this page show the previous design of the Integral Cap Sealer. The new Integral Cap Sealer retains the same overall dimensions.



Laboratory/Low Production Induction Sealer

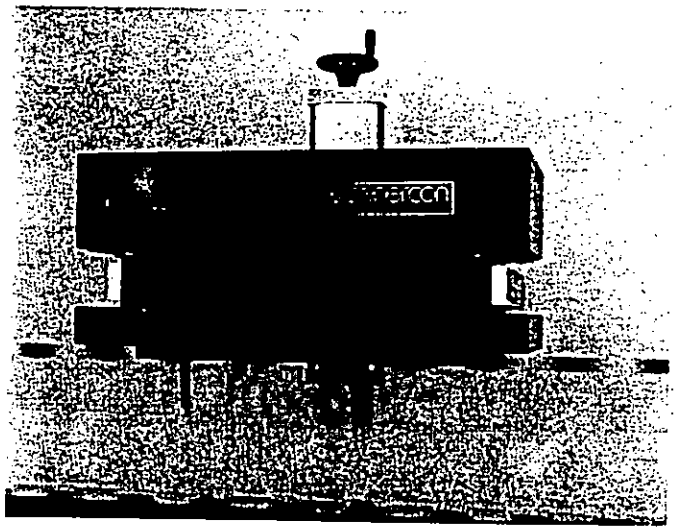
Enercon's laboratory induction sealer provides all the advanced electronic features of our complete line along with a full 1kW of power. Timer control for automatic sealing cycle and a variety of hand-held coils allows wide range sealing application for lab testing or contract packager.

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Enercon Induction Sealing System

The Perfect Package Worthy of Becoming *the* Industry Standard.



- **Perfect Package:** Designed as a compact "All-in-One" system, this third generation solid-state induction sealer combines control, power supply, and sealing coil into one easy to mount and operate package. No messy coil cables to connect. Installed over the conveyor on our rugged, precision adjustable mount, the Enercon system provides the ultimate in flexibility by easily adjusting to a variety of container heights and by presenting the operator easy to reach and read controls and indicators.
- **State-of-the-Art Electronics:** Our third generation solid-state design provides the latest in proven, high reliability components and circuits. Both power and control loops incorporate advanced operative, protective and diagnostic elements and circuits to provide a new level of operational reliability and efficiency. This combination of advancements makes it possible to offer an air-cooled power supply in a fully sealed, NEMA 4 enclosure.
- **Unique Coil Design:** Enercon's coil design capability is second-to-none in the industry. Our new standard coil design (Patent Pending) increases electromagnetic power coupling into the foil. As a result, uniform currents are induced across large mouth inner seals creating consistent seals with complete wax melt and separation of foil from pulpboard liner. This coil design capability allows Enercon to offer 3-standard coils with a range of capability to cover over 90% of all sealing applications. In addition, Enercon offers custom coil design to meet the specific needs of unusual applications reliably and efficiently.
- **Top Total Performance:** Enercon's excellence in power conversion with 95% efficiency and coil design for superior electromagnetic coupling permits effective operation at high line speeds with optimal power usage. **Line speeds exceeding 300 fpm** can be achieved depending upon closure size, innerseal type and container material.

Features

- Single Compact Package for Easy Conveyor Mounting
- Dead-front, Membrane Controls for Easy Operation
- Latest Digital Control Circuits & Power Meter
- Latest Transistor Power Components for 95% Efficiency
- Automatic Closed-Loop Circuits for Frequency & Flux Density Control
- Automatic Self-Protection and Self-Diagnostic Circuits
- Advanced Sealing Coil Design (Patent Pending)
- Reliable, High Speed Performance: Up to 300 fpm.
- Automatic Wide Load Matching Capability
- Air-cooled, NEMA 4 Enclosed Power Supply
- Second-to-None Customer Support & Service

Options

1. ***Adjustable System Support —***
   easy adjustment to a variety of containers.
2. ***Water Recirculator —***
   water-to-air heat exchanger reduces costly coil cooling water usage.
3. ***Foil Liner Sensor —***
   detects missing foil liners.
4. ***Stalled Container Detector —***
   shuts off power if containers stop under sealing coil.
5. ***Remote Start —***
   permits stop/start control via external commands for automated operation.
6. ***Loss of Sealing Indicator —***
   alarm circuit contact closure if sealing power is lost.