

## Unifoiler™ air-cooled induction sealing technology

Founded in 1966, Pillar Technologies is renowned throughout the world for the performance, reliability and quality of its induction sealing systems. Customers in many different industry sectors have relied upon Pillar's technologically advanced induction sealing systems to provide tamper evidence, to preserve freshness and to protect against leakage.



The Unifoiler™ air-cooled induction sealing systems offer the widest range of power outputs to suit all applications, right up to the fastest filling line speeds. Pillar's unique Universal sealing coil technology combines flexibility with sealing efficiency: allowing you to seal closures from 10 to 120mm with a single sealing coil, thereby reducing downtime or the need for dedicated machines for different pack sizes.

Pillar Technologies first introduced solid state induction sealing systems to the world in 1973. Since then we have introduced a number of 'firsts' to the market: the first transistorised air-cooled power supply in 1983; our proprietary Universal sealing coil technology in 1985; the Foiler water-cooled IGBT-based induction system in 1982 and then in 1997 the first fully air-cooled induction sealing system – the Unifoiler™ range. We subsequently introduced the most powerful fully air-cooled induction sealing systems to the market. Pillar Technologies will continue to add to this list of firsts for years to come.





### What is induction sealing?

Induction sealing is an established process for hermetically foil sealing plastic and glass containers. The benefits include: extended product freshness; secondary tamper evidence; prevention of leaks; and enhanced pack presentation.

### How does induction sealing work?

In most applications, foil lined caps are purchased from a cap supplier. There are closures available to fit any size bottle and the cap supplier will recommend the most effective cap/liner combination for your product.

The induction sealing process is simple, cost effective and quick. Induction sealing is an in-line process, typically occurring shortly downstream of the capping unit. A correctly specified induction sealer does not affect line speed.

The container passes under an induction coil, which emits a varying electromagnetic field. As the container passes under the coil the conductive aluminium foil liner begins to heat.

The heat generated in the foil causes the liner's heat seal facing to bond to the container and, in the case of a wax laminated liner, melts the wax bond between foil and backing material. The hermetic seal between container and lining material is created within seconds.



### The Unifoiler range offers:

- Independent power supply and sealing head for extra flexibility and ease of mounting.
- Universal, tunnel and hand-held coils capable of sealing a wide range of closure diameters.
- Compact and lightweight stainless steel design for easy mobility.
- Pillar's unique (Quick Change) coil connections for fast changeover.
- Precision coil height adjust controls to seal any size container.
- Smart system automatically sets power supply to proper operation mode (i.e. hand-held or conveyor).
- Microprocessor controlled, solid state IGBT technology is reliable, efficient and safe.
- Soft touch membrane control panel with multi-purpose 3-digit display, LED status and fault indicators for easy troubleshooting.
- Missing foil, stalled bottle, cocked cap detector, total bottle count, rejected bottle count, total run time capability (optional).
- Loss of seal (LSI) output and alarm contacts.
- Stainless steel cabinet, unitised mobile cart and optional conveyor.
- 1kW system allows for future expansion enabling you to go from low volume hand-held use to moderate conveyor production and back.
- 100% air cooled - no internal or external water needed, meaning system is low maintenance with no pumps, radiators, filters, flow switches or motors to maintain.
- Fast, easy set-up.