

## Devices

# REMP Tube Sealing Family

REMP's complete line of Tube Sealing Instruments offers researchers a unique, efficient and secure means of storing samples within the REMP 384/96 Tube Technology™ consumables. This proven technology of heat sealing offers numerous advantages over other plate sealing and capping methods; exceptional seal integrity at low temperatures, no use of adhesives which could contaminate samples, greater resistance to solvents, and is more cost-effective than other sealing methods.



### Designed for Various Throughput Needs and Space Constraints

Specific throughput needs and available laboratory bench space varies from lab to lab. The REMP CSP384-LT™ and REMP CSP96-LT™ are designed for users that have low throughput needs and are tight on laboratory bench space. The REMP CSP384-RS™ and REMP CSP96-RS™ are designed for sealing a multitude of REMP Storage Tube Racks during

an unattended operation and benefits users having the highest throughput needs.

### Uniform Sealing Quality

Each instrument is designed with similar components to ensure that the REMP Pierceable Thermo-Seal, which is resistant to DMSO and other solvents and can withstand storage temperatures between  $-80^{\circ}\text{C}$  to  $120^{\circ}\text{C}$ , is applied with the same high

quality regardless of the instrument used. All instruments allow for control of the sealing temperature, sealing time, and to some degree the sealing pressure. Robust and repeatable sealing parameters ensure that each individual tube within a REMP Storage Tube Rack is properly and consistently sealed in order to keep users valuable samples secure.

## | REMP CSP384-LT™ and REMP CSP96-LT™

Both the REMP CSP384-LT™ and REMP CSP96-LT™ are semi-automated instruments ideal for low throughput sealing applications. REMP Storage Tube Racks are first sealed using the REMP EasySealer™, which is used to seal all tubes within these racks at the same time. The resulting sealed REMP Storage Tube Rack, either 384 or 96, is then placed into either the REMP CSP384-LT™ or REMP CSP96-LT™ so that the process of die-cutting each individual tube can occur. This two-step, manual process results in individually sealed tubes seated properly within a REMP Storage Tube Rack. As with all of REMP's Tube Sealing Instruments, these instruments allows for adjustments to the sealing temperature, time, and pressure to ensure the best seal possible. The REMP CSP384-LT™ and REMP CSP96-LT™ are designed for users that do not have a high number of tube racks to seal. Their simple design contributes to their ease of operation. These instruments are also compact and easy to use, simplifying the sealing process and giving the user a reliable seal that they have come to expect.

### Low Throughput Needs and Small Footprint

The REMP CSP384-LT™ and REMP CSP96-LT™ are ideal Tube Sealing Instruments for individuals that tend to seal only a handful of REMP Storage Tube Racks at any one time. These instruments were developed in response to our customer's desire for a tube sealer with a small footprint, low price point and can be operated

easily by all of their staff. Both the REMP CSP384-LT™ and REMP CSP96-LT™ offer an appropriate solution for most any lab need.

### Technical Information

#### Features and Benefits:

- Simple, five-step semi-automated operation:
  1. Place either a 384 or 96 die-cutting matrix over the appropriate REMP Storage Tube Rack
  2. Seal tubes within a REMP Storage Tube Rack using the REMP EasySealer™
  3. Remove sealed REMP Storage Tube Rack from the heat sealer and place it onto the drawer of either

the REMP CSP384-LT™ or REMP CSP96-LT™

4. Close the drawer to initiate automatic tube-seal cutting operation
5. Unload the sealed REMP Storage Tube Rack, remove the excess seal material and die-cutting matrix

- Individual control over the sealing temperature, sealing time and pressure
- Compact, lightweight and portable bench-top design
- Safety features include: interlocked operation
- CE Approved

#### Performance:

- Operation time for tube-seal cutting: ~6s

#### Operating Requirements:

- Air: 6 bar [87psi] – filtered, oil-less compressed air

#### Technical Specifications:

- Dimensions: 522mm x 165mm x 428mm [20.5" x 6.5" x 16.8"] (DxWxH)
- Weight: 31kg [68lbs]



Note: Technical Information for the REMP EasySealer™ can be found in the REMP Heat Sealing Family flyer

## | REMP CSP384-RS™ and REMP CSP96-RS™

The REMP CSP384-RS™ and REMP CSP96-RS™ offers researchers a reliable solution for the secured storage of their current tube samples, while helping them keep pace with the accelerated influx of new tube samples. The REMP CSP384-RS™ is capable of sealing up to (38) REMP 384 Storage Tube Racks while the REMP CSP96-RS™ is capable of sealing up to (27) REMP 96 Storage Tube Racks during unattended operation.

### High Throughput Needs and Self-Contained Instrument

Designed for sealing a high number of REMP Storage Tube Racks, both REMP CSP384-RS™ and REMP CSP96-RS™ are flexible and easy to use, simplifying the tube sealing process and allowing the user the opportunity to perform other tasks. These instruments are capable of sealing dozens of tube racks at a time and hundreds of tube racks a day in an unattended fashion. The REMP CSP384-RS™ and REMP CSP96-RS™ come equipped with an integrated stacking system making them an efficient, self-contained device that does not require anything more than loading it with tube racks to be sealed. There is, therefore, no need to integrate either device with other costly third-party peripherals for unattended operation. Each instrument also uses the REMP Pierceable Thermo-Seal, available in roll-form, having up to a 5,000 seal capacity, allowing the device to be a real workhorse.

### Technical Information

#### Features and Benefits:

- Fully automated and self-contained operation
- Capable of sealing a multitude of REMP Storage Tube Racks during a single unattended run
- Individual control over the sealing temperature, sealing time and pressure
- REMP Storage Tube Racks can be optionally kept under an inert gas environment prior to being sealed
- CE Approved

#### Performance:

- Cycle time: 55s (per tube rack)
- Sealing time: adjustable from 1s – 5s

- Temperature control: adjustable from 0°C – 185°C

#### Operating Requirements:

- Electrical: 115/230VAC, 50/60Hz
- Air: 6 bar [87psi] – filtered, oil-less compressed air
- Integration: digital I/O or RS232 (controlled via REMP ActiveX Device Interface Software)

#### Technical Specifications:

- Dimensions: 534mm x 784mm x 840mm [21" x 30.8" x 33"] (DxWxH)
- Weight: 198kg [435lbs]



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sample management