Brooks tube sealing devices provide an industry leading solution for high integrity, cost effective sealing of single use storage tubes. Our heat seal is not only considered to provide the highest integrity of any capping or sealing system it also saves significantly on the space taken by a traditional cap. Single use tubes offer a particularly efficient workflow; samples picked from the storage system can be sent direct to the end user without any further liquid handling operations. The tube sealing system is available on all tubes in the range from a working volume of 40µl to 900µl.

Brooks offers two tube sealing devices suited to differing throughputs and levels of automation:

- Low to medium throughput, semi-automated: CSP384-LT and CSP96-LT
- Medium to high throughput, semi-automated or automated operation: CSP384-RS and CSP96-RS

Both the CSP-LT and CSP-RS provide the same high level of seal quality. The REMP Pierceable Thermo-Seal, which is resistant to DMSO and other solvents and can withstand storage temperatures between –80°C to room temperature, short process temperatures such as for PCR up to 120°C, is applied with the same high quality regardless of the instrument used. 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 the user’s valuable samples secure.
CSP384-LT™ and CSP96-LT™

Both the Brooks CSP384-LT™ and CSP96-LT™ are semi-automated instruments ideal for low to medium throughput sealing applications. REMP Storage Tube Racks are first sealed using the Brooks 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 CSP384-LT™ so that 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 Brooks Tube Sealing Instruments, these instruments allows for adjustments to the sealing temperature, time, and pressure to ensure the best seal possible. The Brooks CSP384-LT™ and 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.

Technical Information

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]

* The CSP-LT is designed to work with REMP seals and sealer. It is possible to operate the CSP-LT with a 3rd party sealer, however for long term and secure storage REMP heat seals should be used and the sealer must be set up correctly; for further information contact Brooks Life Science Systems.
CSP384-RS™ and CSP96-RS

Designed for sealing a high number of REMP Storage Tube Racks, both the CSP384-RS™ and the 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 hundreds of tube racks a day. The CSP384-RS™ and CSP96-RS™ can be supplied standalone for integration into a larger automated system or with an integrated stacking system making them an efficient, self-contained device. The stack capacity is 38 x 384-way tube racks or 27 x 96-way, 300µl tube racks. Each instrument uses the REMP Pierceable Thermo-Seal in roll-form, which has the capacity seal up to 5,000 tube racks. CSP96-LT™ offers an appropriate solution for most any lab need.

Technical Information

Features and Benefits:

- Fully automated and self-contained operation
- 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 up to 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 Brooks ActiveX Device Interface Software)

Technical Specifications:

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