

## Devices

# REMP Heat Sealing Family

REMP's complete line of Thermal Sealing Instruments provides researchers with a dependable and secure means of heat sealing numerous types of labware. This proven technology of heat sealing offers numerous advantages over other plate sealing 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 REM-P Easy-Sealer™ is designed for users that have low throughput needs and are tight on laboratory bench space. The REM-P Portrait Heat Sealer™ is geared towards users that have average throughput needs and could benefit from its ability to be integrated into third-party robotic systems. The REM-P Stacking Heat Sealer™ is capable of sealing upwards of fifty standard sized microplates 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 heat seal applied is of the same high quality regardless of the instrument used. All instruments allow for control of the sealing temperature, sealing time, and sealing pressure. Robust and repeatable sealing parameters ensure that each type of labware sealed will consistently keep users valuable samples secure.

### Full Range of Services

REMP offers several types of Thermo-Seal Materials for use within the



family of Thermal Sealing Instruments. They range from a more permanent type, REM-P Pierceable Thermo-Seal, to material that can be easily removed by a user, REM-P Removable Thermo-Seal, to a seal material having very good optical characteristics for assays, REM-P Clear Thermo-Seal. Each type of Thermo-Seal Material has been tested and proven superior under various conditions and applications.



## | REMP Stacking Heat Sealer™

### REMP Stacking Heat Sealer™

The REMP Stacking Heat Sealer™ offers researchers a reliable solution for storage of their current samples, while helping them keep pace with the accelerated influx of new samples. The device is capable of sealing up to (50) 96/384 shallow well plates, (35) 384 deepwell plates and (17) 1–2ml deepwell plates during unattended operation. The REMP Stacking Heat Sealer™ uses any of the various rolls of REMP's Thermo-Seals, most of which are resistant to DMSO, as well as, other solvents and can withstand storage temperatures between –80°C to 120°C.

### High Throughput Needs

Designed for sealing a high number of plate types, the REMP Stacking Heat Sealer™ is flexible and easy to use, simplifying the sealing process and allowing the user the opportunity to perform other tasks. It is capable of sealing dozens of plates at a time and hundreds of plates a day in an unattended fashion.

### Self-Contained Instrument

With an integrated plate stacking system included with this sealing instrument, the REMP Stacking Heat Sealer™ is an efficient, self-contained device. There is no need to integrate this device with other costly third-

party peripherals for unattended operation. The REMP Stacking Heat Sealer™ can seal any number of various microplate types that conform to ANSI/SBS Microplate Standards. REMP Thermo-Seals are 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
- Very cost effective sealing solution
- Capable of sealing up to (50) standard-size microplates in less than 15 minutes
- Automatically adjusts to various plate heights during the sealing process
- Individual control over the sealing temperature, sealing time and pressure

- Microplates can be optionally kept under an inert gas environment prior to being sealed
- CE approved

#### Performance:

- Cycle time: ~18s (per plate)
- 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

#### Technical Specifications:

- Dimensions: 500mm x 600mm x 1'000mm [20" x 24" x 39"] (LxWxH)
- Weight: 76kg [167lbs]



## | REMP Portrait Heat Sealer™

### REMP Portrait Heat Sealer™

The REMP Portrait Heat Sealer™ is a completely electro-mechanical, thermal sealing instrument that does not require any air or vacuum to operate. This versatile and efficient instrument accommodates deepwell, assay, PCR, and standard microplates with only a minor adapter change. The REMP Portrait Heat Sealer™ uses any of the various rolls of REMP's Thermo-Seals, most of which are resistant to DMSO, as well as, other solvents and can withstand storage temperatures between  $-80^{\circ}\text{C}$  to  $120^{\circ}\text{C}$ .

### Medium Throughput Needs

The REMP Portrait Heat Sealer™ is ideal for labs with the need to seal a multitude of plate types at a moderate daily volume. It uses any of the various REMP Thermo-Seals, which can be very easily replaced on this instrument because of its top mounted seal roll design, taking a user less than 30 seconds to change.

### Standalone Instrument or Robotically Integrated

The REMP Portrait Heat Sealer™ is ideal for robotic integration – featuring an extended plate “diving board” for easy access and both a digital I/O port for simple instrument control and RS232 serial port, which can be more elaborately controlled via the REMP ActiveX Device Interface Software. The instrument requires no special setup or hardware and can also function as a standalone instrument, if not needed for integration into an automated system.

### Technical Information

#### Features and Benefits:

- Compatible with a majority of polypropylene microplates that meet the ANSI/SBS Microplate Standards
- Operates entirely without air or vacuum – completely electro-mechanical operation
- Quick and easy changing of plate adapter to accommodate various microplate heights and types
- Functions as a standalone workstation or integrated module
- CE approved

#### Performance:

- Cycle time: ~12s (per plate)
- Sealing time: adjustable from 1s – 5s
- Temperature control: adjustable from  $0^{\circ}\text{C}$  –  $185^{\circ}\text{C}$

#### Operating Requirements:

- Electrical: 115/230VAC, 50/60Hz
- Integration: digital I/O or RS232 (controlled via REMP ActiveX Device Interface Software)

#### Technical Specifications:

- Dimensions: 600mm x 430mm x 770mm [24" x 17" x 30"] (LxWxH)
- Weight: 50kg [110lbs]



## | REMP EasySealer™

### REMP EasySealer™

The REMP EasySealer™ is a semi-automated instrument ideal for low throughput sealing applications. The device is capable of sealing many different types of standard microplates, PCR plates, and deepwell plates, as well as, REMP's unique 384 and 96 Storage Tube Racks. The REMP EasySealer™ is flexible in that it is capable of using various types of pre-cut sheets of REMP's Thermo-Seals. As with all of REMP's thermal sealing instruments, this instrument allows for adjustments of sealing temperature, time, and pressure to accommodate various applications. The REMP EasySealer™ is designed for users that do not have a high number of plates to seal. Its simple design contributes to its ease of operation. The REMP EasySealer™ is 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

The EasySealer™ is an ideal Thermal Sealing Instrument for individuals that need to seal a variety of different microplates, use a diverse set of sealing materials or tend to seal only a handful of microplates at a time.

### Small Footprint

The EasySealer™ was developed in response to our customer's desire for a thermal sealer with a small footprint, low price point and flexible use with many different microplates and sealing materials. It offers an appropriate solution for most any lab need.

### Technical Information

#### Features and Benefits:

- Simple, three-step, semi-automated operation:
  1. Place microplate and sealing film onto drawer
  2. Close the drawer, initiates automatic operation
  3. Unload sealed plate



- Individual control over the sealing temperature, sealing time and pressure
- Compact, lightweight and portable bench-top design
- Universal Plate Adapter capable of working with all ANSI/SBS Microplate Standards
- Safety features include: inaccessible heated elements and interlocked operation
- CE and CSA approved

#### Performance:

- Sealing time: adjustable from 1s – 10s
- Temperature control: adjustable from 0° C – 185° C
- Adjustable sealing pressure; up to 3 – 6 bar [29 – 87psi]

#### Operating Requirements:

- Electrical: 115/230VAC, 50/60Hz
- Air: 6 bar [87psi] – filtered, oil-less compressed air

#### Technical Specifications:

- Dimensions: 414mm x 225mm x 251mm [16.3" x 8.9" x 9.9"] (DxWxH)
- Weight: 10kg [22lbs]

#### REMP AG

Weststrasse 12  
CH-3672 Oberdiessbach  
Switzerland  
Tel.: +41 31 770 70 70  
www.remp.com


#### Tecan US Inc.

REMP Business Unit  
150 Hopping Brook Road  
Holliston, MA 01746  
USA  
Tel.: +1 508 429 2200

#### Tecan Japan Co., Ltd.

REMP Business Unit  
Kawasaki-Tech Center Bldg. 17F  
580-16, Horikawa-cho  
Saiwai-ku, Kawasaki-shi 212-0013  
Tel.: +81 44 542 7021

REMP® is a registered trademark of REMP AG, Oberdiessbach Switzerland  
REMP EasySealer™, REMP Portrait Heat Sealer™, REMP Stacking Heat Sealer™, REMP Piercable Thermo-Seal™, REMP Removable Thermo-Seal™ and REMP Clear Thermo-Seal™ are trademarks of REMP AG, Oberdiessbach, Switzerland

 REMP is a Tecan Group company

**REMP**  
sample management