REMP Automated Sample Stores Small-Size StoreTM (SSS)

The REMP Small-Size Store™ (SSS) is a fully automated sample storage and retrieval system that fits perfectly into any research laboratory. The REMP SSS™ complements existing sample storage systems and is an ideal entry-level storage solution, which includes the innovative REMP Tube Technology™, for applications in pharmaceutical, agricultural, biotech or other Life Science research.

Previously, the high quality REMP sample processing and storage concepts had been restricted to large research facilities with very demanding capacity and throughput requirements. Now, with the new Small-Size Store™ (SSS), smaller research operations no longer need to compromise sample integrity during storage and can benefit from more efficient sample logistics from the inherent design of the REMP Tube Technology™.

REMP Tube Punching Technology™

The unique «punching» technique, where individual tubes are directly transferred from storage tube racks into delivery tube racks for collecting and reformatting, greatly reduces handling error rates because the transfer is performed by a single axis movement. This technique is faster and more reliable compared to conventional pick and place methods. Eliminating potential cross-contamination or dilution-effects, often seen with samples undergoing traditional liquid transfer, is accomplished with REMP's «Cherry-picking», which can be done at storage temperatures down to -20°C.

Multi-purpose

In addition to REMP's Tube Technology™ consumables, the REMP SSS™

can store and retrieve numerous other microplate types, which conform to the ANSI/SBS Microplate Standards, such as those used for temporary storage of prepared mother plates for screening.

Features and benefits:

• Proven technologies, easy to install and fits in every lab

 Cherry-picking occurs within the environmentally controlled storage system – no freeze/thaw cycles on samples

 Typical storage temperatures include: -20°C, -5°C or +4°C

- Easy to install and use Control Software (PC based)
- Capacity is scalable by adding expansion units
- Consumables can be loaded/unloaded

manually or the store can be integrated with any automated system

- Compatible with REMP Sample Administration Software (SAS) or can be integrated with other software via REMP's Open Data Interface (API)
- Ideal access for service and maintenance





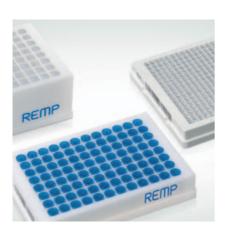
I Technical Details

Robotic Integration

The REMP Small-Size Store™ is ideal for stand-alone use or can easily be integrated into any robotic system using the instrument's single transfer position for loading/unloading consumables. Software control of the REMP SSS™ is accomplished through the REMP Application Programming Interface (API), which is used extensively in larger REMP sample stores. It has been well-tested and documented.

Scalability

Future growth of sample libraries is often difficult to predict. Adding up to two extension units to the Small-Size Store™ triples the storage capacity with minimal initial investments. These units can also be relocated easily within your facility if there is ever the need to move.





Sample Administration Software (SAS)

The API of the SSSTM offers immediate access to the comprehensive world of REMP Sample Management Software packages.

Easy Service Access

Every instrument needs service and maintenance. The SSSTM is designed for easy service access resulting in quicker servicing and shorter instru-

ment downtime. Cassette racks within the SSSTM can also be removed entirely and transferred to another manual freezer within minutes, if there is ever the need to service the entire system.



Technical Specifications:

• Power: 208V/60Hz, 230V/50Hz, ~1000W

• Typical storage temperatures: -20°C (-4°F) -5°C ($+23^{\circ}\text{F}$) $+4^{\circ}\text{C}$ ($+39^{\circ}\text{F}$) • Electrical Connection: 230V/50Hz 230V/50Hz

208V/60HZ 115V/60Hz 115V/60Hz

• Dimensions: W: 1280mm (4'2"), D: 1346mm (4'5"), H: 1992mm (6'6")

• Weight: approx. 600kg/1320 lbs.

Supported REMP Tube Technology™ formats and capacity

• REMP 384 Storage Tube Racks, sealed 40µl:

1060 racks

• REMP 96 Storage Tube Racks (300), capped 200µl, sealed 300µl: 860 racks

• REMP 96 Storage Tube Racks (900), capped 800μl, sealed 900μl: 500 racks

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