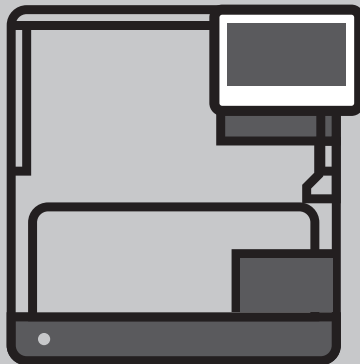




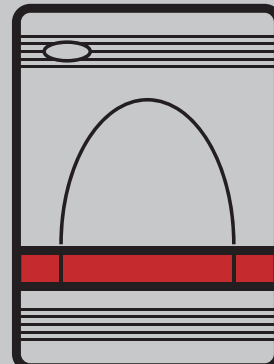
Hygiena™ Prep Xpress

Choose Your Own Adventure

Optimize Laboratory Workflows with Modular Automation



Hygiena Prep Xpress



BAX® System

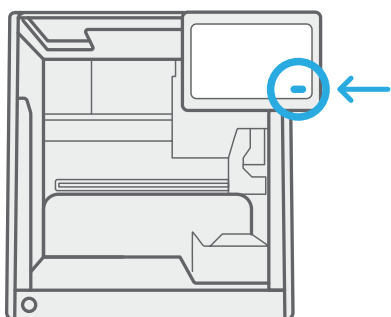
Hygiena Prep Xpress: Empowering High-Throughput Laboratories

The Prep Xpress is an affordable, small footprint, modular automated liquid handling platform that increases technician free-time, pipetting accuracy, and traceability. The modular workflow options empower autonomy for other laboratory tasks to improve efficiency and consistency during routine preparation tasks.

Choose Your Own Adventure with Modular Automation!

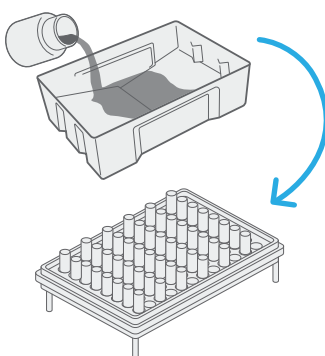
- Laboratory efficiencies increase when the right tool is available at the right time.
- Don't wait for hours waiting for an automation platform to heat samples or perform PCR cycles.
- Maximize your technician's labor by choosing any protocol at any time to fit your sample preparation adventures.

Choose Protocol



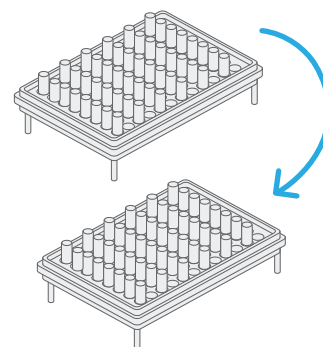
Select the correct protocol for any of the modular steps and review deck layout.

Prep



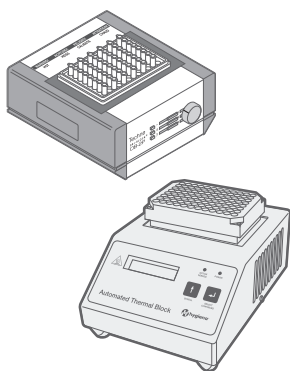
Prepare up to 6 racks lysis solution or 5 racks BHI media in a single run.

Transfer



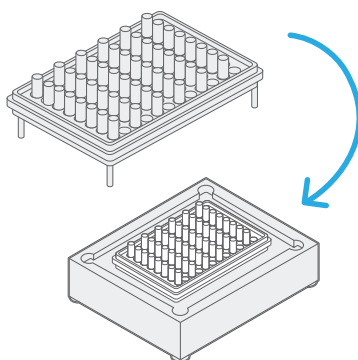
Transfer up to 2 racks of BHI regrowth or sample aliquots into prepared lysis solution racks in a single run.

Heat



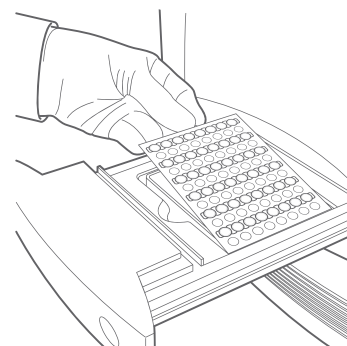
Prepare heat steps using manual or automated heat blocks outside of Prep Xpress machine.

Hydrate



Hydrate up to 2 PCR racks from prepared lysate tubes in a single run.

Analyze



Cap hydrated PCR strips and run on PCR cycler.

Hygiena Prep Xpress Features & Benefits

- **Increase Lab Productivity** | Demonstrated reduction in solution preparation resulting in more productive use of lab technician time.
- **Small Footprint** | Compact 2 ft³ size eliminates the need for extra benchtop space that can be utilized for other routine testing activities.
- **Streamlined Workflow** | Continuous workflow eliminates interruption of sampling processes to maximize efficiencies, not only in PCR prep, but in all areas of lab work.
- **On-Board Control Features** | Minimizes downtime with on-board tracking software that prompts technicians for maintenance activities and eliminates the need for paperwork.
- **Technician-Free Time** | A technician can perform other laboratory tasks while the Prep Xpress performs physical actions the technician previously had to perform.

Over 80 minutes of technician-free time:

- 20 min for every 6 racks of lysis solution prepared
 - 20 min for every 5 racks of BHI tubes prepared
 - 45 min for automated heat/cool blocks
 - 20 min for every 2 racks of PCR hydration
- **Pipetting Accuracy and Traceability** | Manual pipetting accuracy requirement for BAX System procedures:
 - Pipettes should be calibrated to deliver within 10% of required volumes. (User Guide page 14)
 - **Prep Xpress Validated Pipetting Accuracy:**

The variability for pipetting accuracy was <1% for the bulk lysis fill, 20 µL transfer and PCR tablet hydration of 30 µL and 50 µL. A 6.6% variability was observed for the 5 µL transfer protocol, which is equivalent to a ± 0.33 µL.
 - **Traceability:**

Every action and liquid volume handled is recorded and provided in an end-of-run report.
 - **Modular Design** | Modular automation allows for multiple workflows and stages of sample preparation to utilize a single instrument without having to wait for all steps to complete before running next batch. Prep Xpress is active for 20 – 30 min intervals then can switch to another protocol to fulfill immediate lab needs completing multiple 96 sample batches. Other automation platforms are locked in a single protocol for over 80 min for a single 96 sample batches.
 - **Size Advantage** | Smallest automation instrument on the market (2 ft³ or 0.6 m³). Lab space is a big driver on ability to on-board new technologies. Use yours wisely.

Hygiena Prep Xpress Specifications

Parameter	Specification
Power	
Input Power (Primary), Universal Supply	100-240 VAC, 50-60Hz
Output Power (Secondary)	500 W at 48 V
Physical Dimensions	
Width	21 in / 534mm
Depth (with screen)	25 in / 635mm
Height	24 in / 610 mm
Height (door open)	32 in / 813 mm
Weight	91.5 lbs / 41.6 kg
Operation	
Deck Capacity	Up to 8 positions
Plate Transport Mass	Maximum 300 g filled deep well plate
Communication	USB, Ethernet
Calibrated Positional Accuracy	0.5 mm
Positional Repeatability	0.125 mm
Operating Temperature	15-35°C (59-95°F)
Relative Humidity	15-85% non-condensing
Designed Life	7 years
Storage	
Storage Temperature	-20-70°C
Relative Humidity	10-90% non-condensing
Regulatory Installation Rating	
CSA Certification Installation Category	II