

ATS-100

Acoustic Transfer System



The **ATS-100** transfers chemical and biological solutions with unparalleled accuracy and precision directly from one plate to another. Fully user-tunable, the ATS-100 is flexible, application friendly and is highly adaptable to meet a broad range of liquid handling needs and requirements. Using the ATS-100's patented acoustic transfer process you can perform your experiments with the lowest starting volumes of any liquid handling device on the market using conventional.

off-the-shelf* wellplates. Then, continue to use your small liquid supply until you achieve the lowest true dead volumes (i.e., <0.5µL 3456; <1µL 1536; <2µL 384) in the industry. All the while you will have complete confidence in the successful transfer of your samples because with the ATS-100's True Non-contact Technology™ the remaining liquid levels in your source plate are actively monitored in real-time as the dispensing process is taking place.

Higher performance, more applications, better results, best value!

Expand your capabilities with the ATS-100 Acoustic Transfer System from EDC Biosystems. Now, you can reliably dispense ultra-low liquid volumes for your screens, assays, and even arrays while reducing waste, time and costs.

- **Open platform** acoustic dispensing system
- **Quiet operation** for optimum process monitoring in robotic work conditions (No external vacuum generator or 24/7 water bath operation required)
- Dispense **aqueous** liquids or DMSO from **1 nL to 2µL+**
- Robust, **user-tunable** liquid calibrations
- **Lowest starting & dead volumes** (e.g., < 1.0 µL for a 1536 wellplate)
- **DMSO concentration** monitoring
- Perform screens, hit-picks, serial dilutions, RT-PCR and **protein crystallization** assays
- **Use less reagents**, eliminate consumable tips, and washing steps

Dispense liquids using sound energy into and out of off-the-shelf 96, 384, 1536 and 3456 wellplates*. No print heads with fixed-spacing or volume-specific tip sizes to deal with. Easily perform anything from basic wellplate reformatting and backfilling to compound library screening, hit-picking, serial dilutions (IC-50s) or produce arrays; even difficult ones such as proteins, complex lysates and tissues without the worry of cross-contamination from tips. The ATS-100 can also easily integrate with other laboratory equipment for a complete automated solution.



(ATS-100 w/ Mono-Lift single-position plate lifter)

❖ Wellplate selection includes, and is not limited to, options commercially available from Aurora Discovery/Nexus, Corning Incorporated, and Greiner Bio-One. Other plates from other manufacturers may be used as well. Contact EDC Biosystems for complete details.

specifications

- | | | | |
|--------------------|--|-------------------------------|-----------|
| • fluid viscosity: | 0–20 cP | • transfer variability: | <10% CV |
| • surface tension: | 27–72 dynes/cm | • 384 wellplate replication: | <2.5 min* |
| • density: | 0.5–2.0 g/cm ³ | • 1536 wellplate replication: | <6 min* |
| • transfer volume: | 1 nL to 2µL+ (Larger volumes increase transfer times.) | • 3456 wellplate replication: | <13 min* |
- * For a single unit-volume well-to-well transfer.

system components

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|--|--------------------------------------|
| • internal coupling fluid circulation system | • internal barcode reader |
| • wellplate charge-neutralizing system | • internal destination plate flipper |
| • CCD camera wellplate monitoring system | • ethernet-based connectivity |
| • wellplate interference sensor | • built-in Windows based PC |

special features

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|--|---|
| • serial-dilution and hit-pick mapping software included | • landscape wellplate orientation for both source and destination plates (external plate flipping or rotation not required) |
| • quick-release destination grippers | • single-position plate load/unloading available |
| • real-time data collection & management system | • DMSO concentration monitoring |

dimensions and facilities

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|-----------------------------------|---|
| • size: 71cm W x 78cm D x 65cm H | • electrical: 110 VAC, 50/60 Hz or 230 VAC, 50 Hz |
| • weight: 115 kg | • coupling fluid: distilled water (400 ml) |
| • clean dry air: 60–80 psi, 2 CFM | |

distributors

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