

Why is the Quadra system unique?

- ▶ Easier programming—the stackers automatically infeed/outfeed different microplates and reservoirs to the shuttle. It equates to a 50-plate deck in 38 inches of benchtop. No need to teach special positioning on a large deck.
- ▶ The shuttle moves the working devices, ultrasonic tip wash and various plate nests, to the stackers and pipettor head for servicing.
- ▶ Smoother more reliable pipetting—the indexing stage precisely moves the lightweight microplate in the X-Y and Z direction. The stepper motor driven, full indexing stage can perform serial dilution in the 8 or 12 direction in addition to changing formats in any matrix, not only 96 to 384 to 1536. Our heads are stabilized to reduce potential for errors and losing precious reagents, compounds or other targets.
- ▶ Seven user interchangeable pipettor heads:
 - 450 μ L disposable tip, Cv of 2-3% at 10 μ L enables pipeline pipetting*
 - 96 well, 48 well, 24 well plus 8 or 12 row serial dilutions*
- Four positive displacement pipettor heads
 - 96SV 60 μ L, Cv of 2-3% at 0.5 μ L
 - 96 200 μ L, Cv of 5% at 0.5 μ L
 - 384SV 60 μ L, Cv of 2-3% at 0.5 μ L
 - 384 200 μ L, Cv of 5% at 0.5 μ L
- Cherry Picker heads
 - 60 μ L positive displacement, 8 channel
 - 200 μ L positive displacement, 8 channel
 - 100 picks—100 plates—1 hour—3 destination plates**
- ▶ Nanoliter transfers as small as 2nL using transfer tip pins.
- ▶ The cassette stackers are pneumatically operated to provide the force required for reliable operation. The cassette stackers may be extended to provide 50-plate operation from each side. The ability to restack and sort plates adds a dynamic vertical dimension to flexibility.
- ▶ Unique, new OneWrite™ Control System option puts complete control confidence in the hands of one individual. Each cassette has a read/write memory that carries program instructions for each plate to each processing device. A checksum guarantees the correct device and correct program is executed. The cassette memory maintains the audit trail with time stamps.



TOMTEC

Ask us about our other products!

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How much performance can your lab manage?

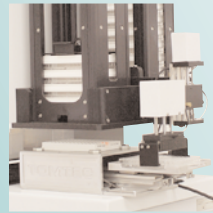
What's YOUR definition of performance?



Welcome to ours...

Vertical Space System

Utilizing a 38 inch footprint, the Vertical Space System allows the user to accomplish automated liquid handling tasks that would require a 50 station deck on flatbed systems. Intrinsic to the Quadra-Plus, is the eight station moving shuttle that services the infeed/outfeed stackers and the two pipetting heads with various working elements to meet the demands of today's automated assays and sample preparation requirements.



AutoHand

Fully automates filtration. Stacker infeed/outfeed for the filter plate and capture plate.

OneWrite™ Control System

Cassette memory locks in assay protocol.
Checksum verifies correct setting.
Audit trail and time stamp for each device.

Smart Cassette Stackers

Contains read/write memory. Handles reservoirs or plates, can restack, sort and select. Reliable pneumatic operation.

Nucleic Acid Purification and PCR Clean-up

Plates required in the protocol may be stacked in order.

Lysis plate Binding plate
Clearing plate Elution plate
Filter plate

Minimize contamination and loss through evaporation by stacking.

Execute Compound Screening Conduct Campaigns such as:

ELISA Receptor Binding
Ligand Binding Cell Based
Kinase Assay GPCR
Compound Library Management

by employing appropriate accessories and high throughput stacking.

Interchangeable Cassette Stackers

Accepts SBS compliant plates in all thicknesses and reagent reservoirs for your specific application.



Lid Handling Stackers

Stackers infeed lidded plates, retain lid, process plate, relid and restack.

Lid



Ultrasonic Tip Washing

Circulated wash station.
Carryover less than 1 in 10 million

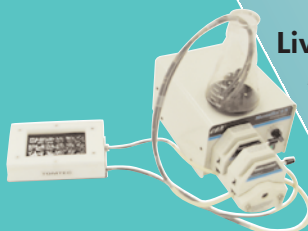
Solid Phase Extraction

The Quadra is the instrument of choice for this application. Throughput, precision, GLP requirements.



Live Bottom Reservoir

Maintains a constant level of agitated particulate matter (i.e. magnetic beads, cells) to assure uniform distribution for the aspirating tips. Source bottle may be temperature controlled.



Two Stationary Robust Pipetting Heads

Disposable Tips

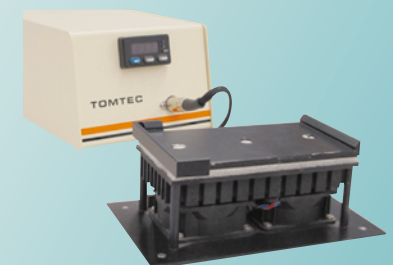
96 well – 450µL 12 row – Serial Dilution
48 well – 450µL 8 row – Serial Dilution
24 well – 450µL

Positive Displacement

96 or 384 – 60µL, 0.5µL Cv 2-3%
96 or 384 – 200µL, 1µL, Cv 3%

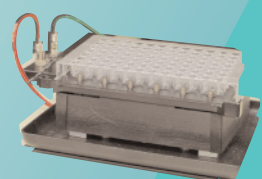
Cherry Picker 60µL or 200µL

100 plates – 100 picks – 1 hour



Temperature Controlled Nest

Peltier heating or cooling of reservoirs.

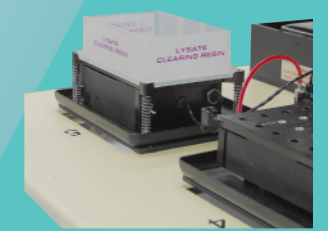


Magnetic Nests 96 and 384

Retrieves plates from the stackers. Under program control, high strength magnets are energized to hold the beads then release them. All without remounting the plate.

Shaker Nest

Provides an adjustable orbital shaking motion to the plate or reservoir retrieved from the stackers. Automatically stops and centers for pipetting.



our website tells it all at www.tomtec.com