

RIVA is a fully automated IV compounding system designed to address the issues of patient and pharmacy technician safety, overall efficiency and the challenges of an ever-changing regulatory environment.

Revolutionary Technology

RIVA has numerous features that provide safety, efficiency and productivity benefits:

- Unidirectional sweeping airflow
- Touch-screen operation
- Gravimetric verification of every dose
- Ability to make drug source (intermediary) bags
- True walk-away capability

The technology provides the safest and most flexible means of delivering fully labeled syringes and bags (batch or patient-specific) and requires no operator intervention during the compounding process.

Safety

Eliminates errors and contamination associated with manual compounding. The system features a fully-enclosed compounding chamber with HEPA-filtered unidirectional airflow and continuous particle monitoring that meets or exceeds ISO Class 5 and PIC/S Grade A requirements. RIVA also uses patented high-intensity pulsed UV light for disinfection of all vial and bag ports prior to compounding.

Cost Savings

Lowers cost-per-dose of medication, reduces need for medication outsourcing and decreases pharmacy waste. RIVA uses only off-the-shelf consumables and handles large multi-dose vials. Hospital installations have reported an ROI of less than three years.

Efficiency

Prepares up to 55 doses per hour with walk-away capability and eliminates manual processes and the need for in-process inspections. RIVA also provides a complete electronic audit trail and automatic barcode labeling of every dispensed product.



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RIVA technology can be configured for specific patient populations and institutional needs. ARxIUM offers RIVA products for different institutional segments:

RIVA General/Adult	RIVA Chemo	RIVA Pediatric	RIVA GMP
<p>PHARMACY NEED High quantities of syringe and bag doses with low-to-medium variability</p>	<p>PHARMACY NEED Patient-specific bag output with staff exposure safeguards</p>	<p>PHARMACY NEED Highly precise syringe doses with high patient-specific variability</p>	<p>PHARMACY NEED Health System centralized sterile compounding services and 503B Outsourcing Facilities</p>
<p>RIVA SOLUTION</p> <ul style="list-style-type: none"> • Reduces reliance on outsourcing medications • High productivity and efficiency with walk-away capability and high inventory capacity • Handles liquid or powder vials, syringes 1 mL - 60 mL and bags 25 mL - 1,000 mL • Complete product labeling within RIVA • Prepares both defined-concentration and defined-volume IV bags 	<p>RIVA SOLUTION</p> <ul style="list-style-type: none"> • USP <800> compliant negative pressure helps protect pharmacy staff from cytotoxic preparations • Multiple technologies to reduce surface contamination: <ul style="list-style-type: none"> – Robot paths and product motion do not pass over unused inventory – Drip mitigation logic and pressure management algorithms prevent drips and vial venting – Drip and spill containment to protect other products in the compounding area • Ability to pre-install ChemoClave™ or ChemoLock™ bag spikes (depending on bag type) • Fill queues allow loading of inventory in anticipation of preparing patient doses 	<p>RIVA SOLUTION</p> <ul style="list-style-type: none"> • Multiple technologies ensure dose safety for vulnerable pediatric patients • USP <797> compliant aseptic processing and preparation • High accuracy and dose repeatability • Syringe dose volumes down to 0.3 mL. • Prepares low-concentration intermediary bags which RIVA can then use as a drug source 	<p>RIVA SOLUTION</p> <ul style="list-style-type: none"> • Integrated continuous particle counting at critical sites • Integrated viable particle impact sampling at critical sites • Integrated continuous temperature and relative humidity monitoring in drug storage areas • Ability to Alert, Alarm, and/or Halt when Environmental Monitoring (EM) conditions are out of specifications • Enhanced documentation and reporting of EM and door opening events • Real-time Cleaning Mode documentation • Can be expanded to the entire pharmacy facility to have a single EM solution