EQUASHIELD® Pro Overview

Equashield® is a developer of Closed System Transfer Devices (CSTDs) for the safe handling of hazardous drugs to protect healthcare workers. Equashield's mechanically closed CSTD design relies on its unique pressure equalization behind the syringe and with its use of tight seal double membranes to keep connectors residual free despite multiple entries. Equashield® Pro is built around the Equashield CSTD and relies on its innovative design to redefine the automation workflow and optimize throughput.

Unlike traditional robot's reliance on robotic arms that mimic human motion with use of needle and syringe leading to potential for cytotoxic drips, spills, aerosols and vapor release, Equashield® Pro uses multi-station compounding approach to minimize both the motion and time it takes to prepare a dose much like a factory manufacturing line. Equashield® Pro is also capable of processing a broad variety of finished product dosage forms and access all size drug vials to be a truly versatile machine. Equashield® Pro is designed to make adoption of robotics in the IV room simple and affordable regardless of hospital size. It is easy to fit into hospital pharmacies and comparable in size to a standard Biological Safety Cabinet.

Hazardous Drug Protection with use of Equashield's leading Closed System Transfer Device tested for Leak Free connection and Air Tight closeness

High Throughput to meet your compounding needs during peak time, enabling you to optimize patient care without sacrificing scarce resources

Medication Error Protection with use of Equashield's proprietary dose verification system to prevent wrong drug, wrong dose and labeling errors during compounding

Small Footprint to fit into existing pharmacy space. Equashield Pro is comparable to the size of a standard Biological Safety Cabinet

Highly Versatile to produce a wide range of patient specific dose with syringes, IV bags and other finished dose forms

Cost Effective Solution to fit into any pharmacy budget. Additional cost avoidance from expensive renovation costs and expensive maintenance

EQUASHIELD Pro Key Metrics

67	8	65	8	60
Large Vial Storage Capacity	Simultaneous Work Stations	Syringe Unit Storage Capacity	Shakers with 2 Reconstitution Stations	Doses Compounded Per Hour

AUTOMATED COMPOUNDING of HAZARDOUS DRUGS

EQUASHIELD® Pro

EQUASHIELD®
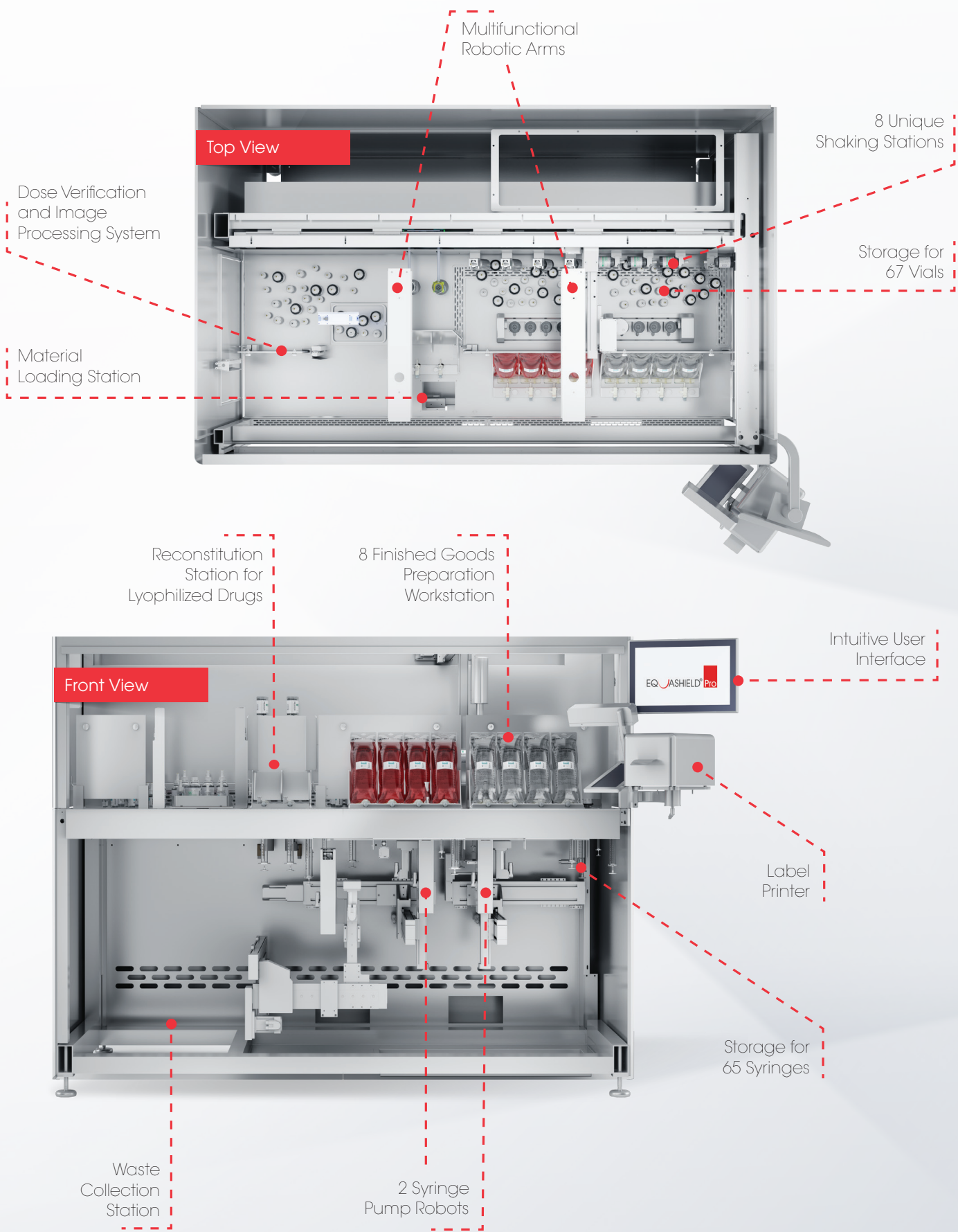Safe. Simple. Closed.

/equashield

A Progressive Choice in Automated Hazardous Drug Compounding

- ✓ Protection from Hazardous Drugs via the use of Clinically Proven CSTD System
- ✓ Highest Throughput in the Industry when preparing Patient Specific Doses by leveraging Equashield CSTD System
- ✓ Protection from Medication Errors during Compounding via the use of dose verification system

EQUASHIELD® Pro

Robotic Hazardous Drug Compounding With Built-In Safety of Industry Leading Closed System Transfer Device (CSTD)
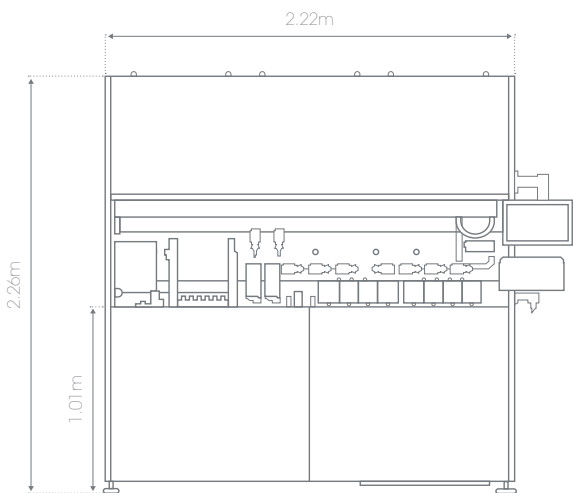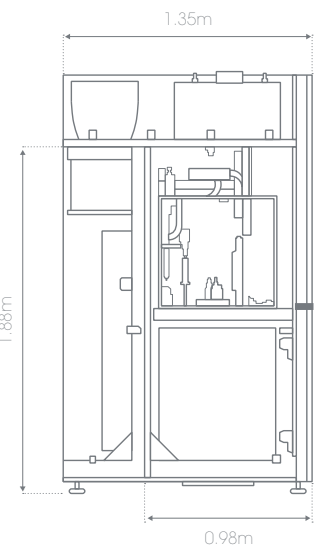
A Look Inside EQUASHIELD® Pro

Top View

- Multifunctional Robotic Arms
- 8 Unique Shaking Stations
- Dose Verification and Image Processing System
- Storage for 67 Vials
- Material Loading Station

Front View

- Reconstitution Station for Lyophilized Drugs
- 8 Finished Goods Preparation Workstation
- Intuitive User Interface
- Label Printer
- Storage for 65 Syringes
- Waste Collection Station
- 2 Syringe Pump Robots

Small Footprint – Large Capacity

PRODUCT SPECIFICATION / **PRODUCT REQUIREMENT**

Size of Pro (WxDxH)	2.223 x 1.353 x 2.261 (m), 87 x 54 x 89 (in)
Minimum Clearance (in)	36 (front), 12 (Right), 12 (Left), 12 (Back)
Minimum Distance from Ceiling	0.15 (m), 6 (in)
Inner workspace of Equashield Pro (w x d)	72 x 30 (in)
Weight (Empty)	1,100 (Kg), 2425 (lb)
Floor Rating	>113 lb/ft2 (550 Kg/m2)
Doorway Clearance Necessary for Installation	0.978 (m), 38.5 (in)
Corridor Width Requirement (to mitigate 90 degree turns)	1.485 (m), 58.5 (in)
Air Outflow Max	3100 M3/H
Power Supply	190V, 20A, 3P
Networking Interface	2x RJ45 (LAN) with HL7 Interface

Front View — 2.22m, 2.2m, 1.01m

Side View — 1.35m, 1.88m, 0.98m

Top View — 0.36m

PRODUCT CAPACITY

VIALS
Storage Capacity: Over 67 large vials (100ml), Sizes: 1ml to 100ml, Manufacturer: Most commercially available vials of 13, 20 and 28mm neck size

SYRINGES
Conveyor Capacity: 65, Sizes: 1ml to 60ml, Manufacturer: Equashield Syringe Units

IV BAGS
Simultaneous Workstations: 8, Sizes: 50ml to 1000 ml, Manufacturer: Any commercially available IV Bags with ISO compatible IV Port