



Mundus HD[®]
by EQUASHIELD MINI

Overview

Unleash the Power of Automation

EQUASHIELD®'s Mundus Mini HD is the latest innovation in automated compounding of hazardous drugs designed to revolutionize the landscape of pharmacy compounding. Building on our legacy of safety, quality, and efficiency, the Mundus Mini HD takes these principles to the next level. With automated compounding powered by EQUASHIELD's CSTDs, it ensures the utmost safety in handling hazardous drugs, minimizing the risk of contamination, exposure, and errors. Its streamlined workflow management not only enhances efficiency but, also prevents medications errors, making the compounding process not just safer, but smarter.

Mundus Mini HD achieves remarkable efficiency with high throughput capabilities, delivering up to 37 individual doses per hour*, all while being designed for optimal workflow to keep your operations running smoothly. Quality is at the core of Mundus Mini HD, offering easier process traceability and advanced image processing dose accuracy verification. Plus, its interoperability with all major manufacturers' consumables ensures seamless integration. With Mundus Mini HD, we continue our commitment to simplifying and enhancing IV compounding, providing a safer, more efficient, and higher-quality solution for healthcare professionals regardless of the hospital's size.

- | Dosage Error Protection
- | High Throughput
- | Compact Footprint
- | Seamless Integration with Existing EMR

Mundus Mini HD

The Future of Safe Compounding

Up to **37**

Individual doses per hour*

03

Stations with advanced image analysis

02

Shaker stations for reconstitution

45 kg

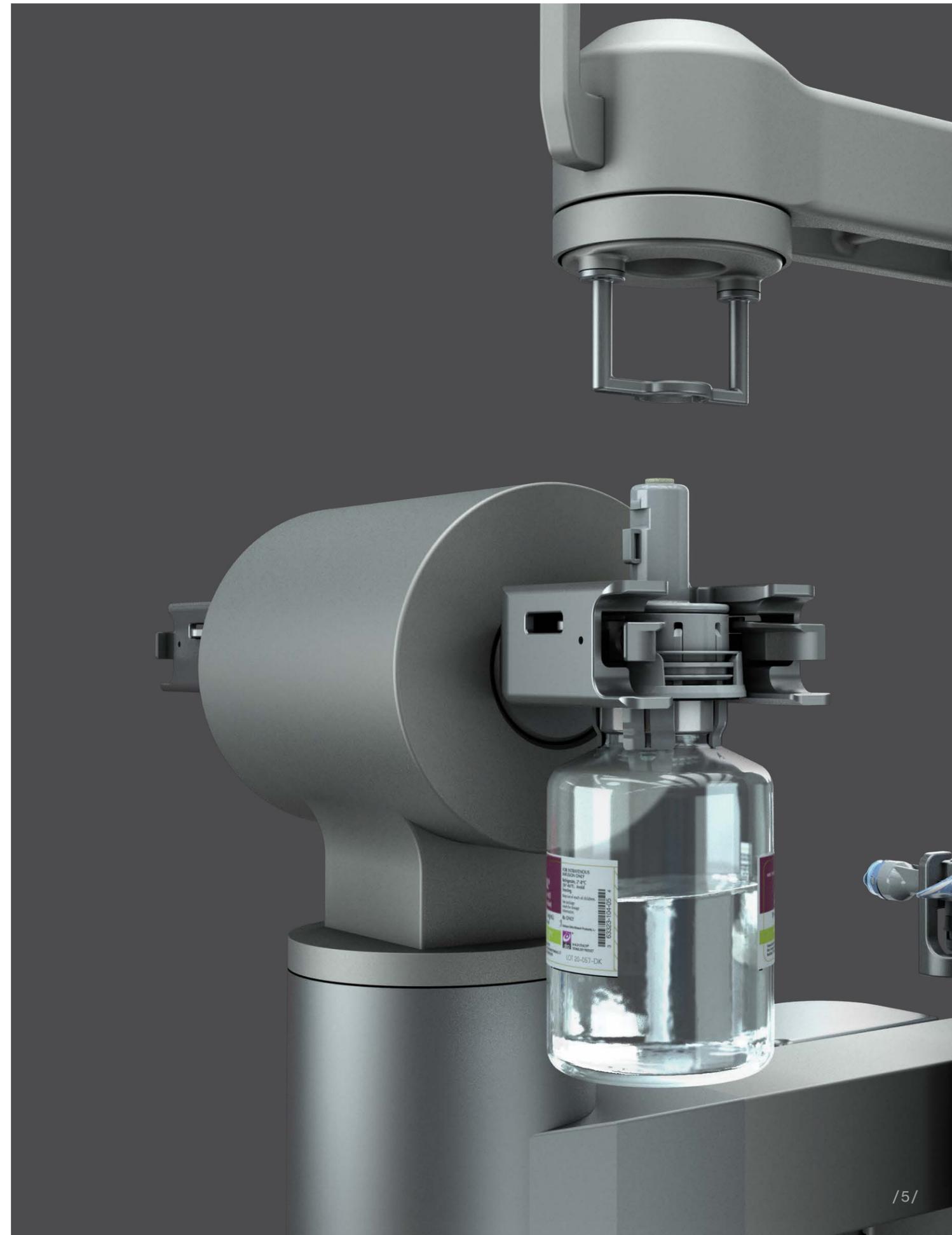
100 lbs

03

IV Bag stations

92x41 cm

3x1.3 ft



Clean & Precise Compounding Process



Safe

Mundus Mini HD utilizes EQUASHIELD's proven CSTDs in conjunction with automation protecting pharmacy professionals against exposure to hazardous drugs.

Machine Health Monitoring

Operational and conditional sensors proactively identify, analyze, and alert EQUASHIELD's service engineers of any operational irregularities, allowing maximum productivity, ROI, and minimize unplanned workflow disruptions.



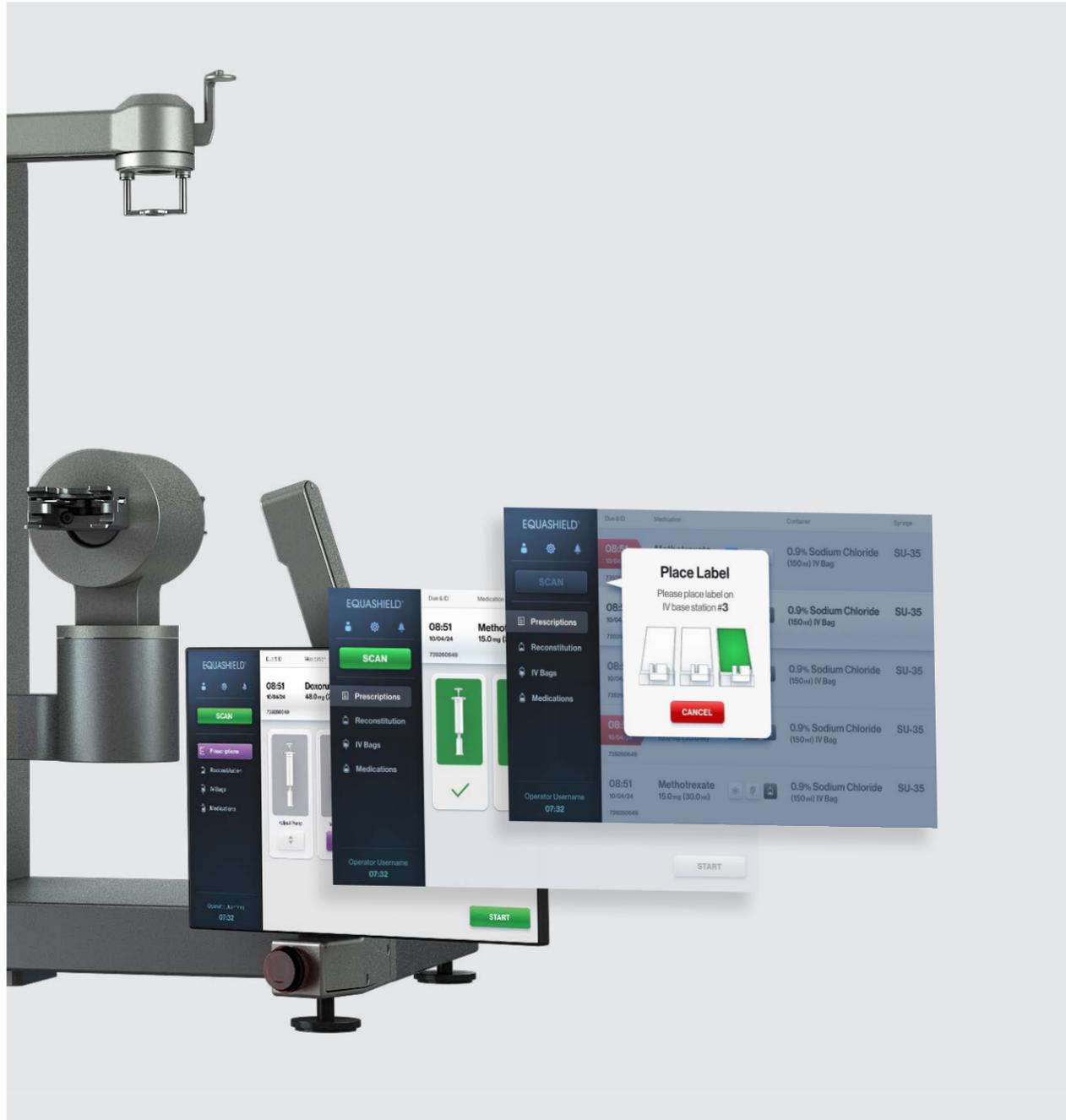
Medication Error Protection

A state-of-the-art system utilizes 3 embedded cameras, machine vision, and advanced image analysis technology. This powerful combination effectively reduces medication errors attributed to compounding processes such as incorrect medication or diluent, wrong dosage amounts, and mislabeling.



Compact Footprint

Occupies minimal space, easily fitting within a 4-foot Class 2 (Type A1,2 or B1,2) biological safety cabinet.



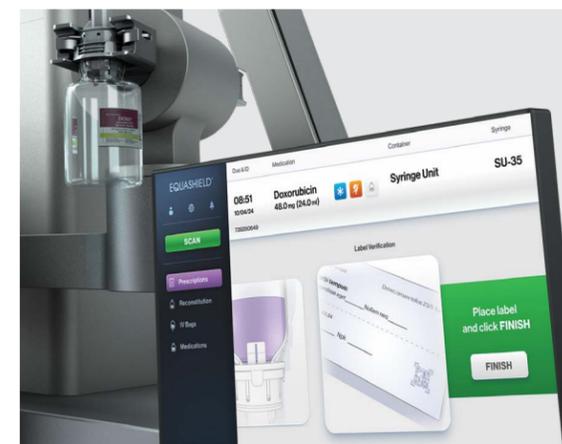
User Interface

User-friendly interface allows for customizable operation scenarios with the Mundus Mini HD.



Workflow Reliability

Our reliable, high-quality, and modular design maximizes equipment uptime aimed to proactively prevent unplanned services and malfunctions.



Compounding Visibility

Generates complete documentation of the compounding process for easier traceability, logging, and reporting, resulting in workflow optimization.



Plug & Play

Bi-directional compatibility, seamless integration with the hospital EMR system - requiring little to no IT resources or creation of unnecessary interfaces.



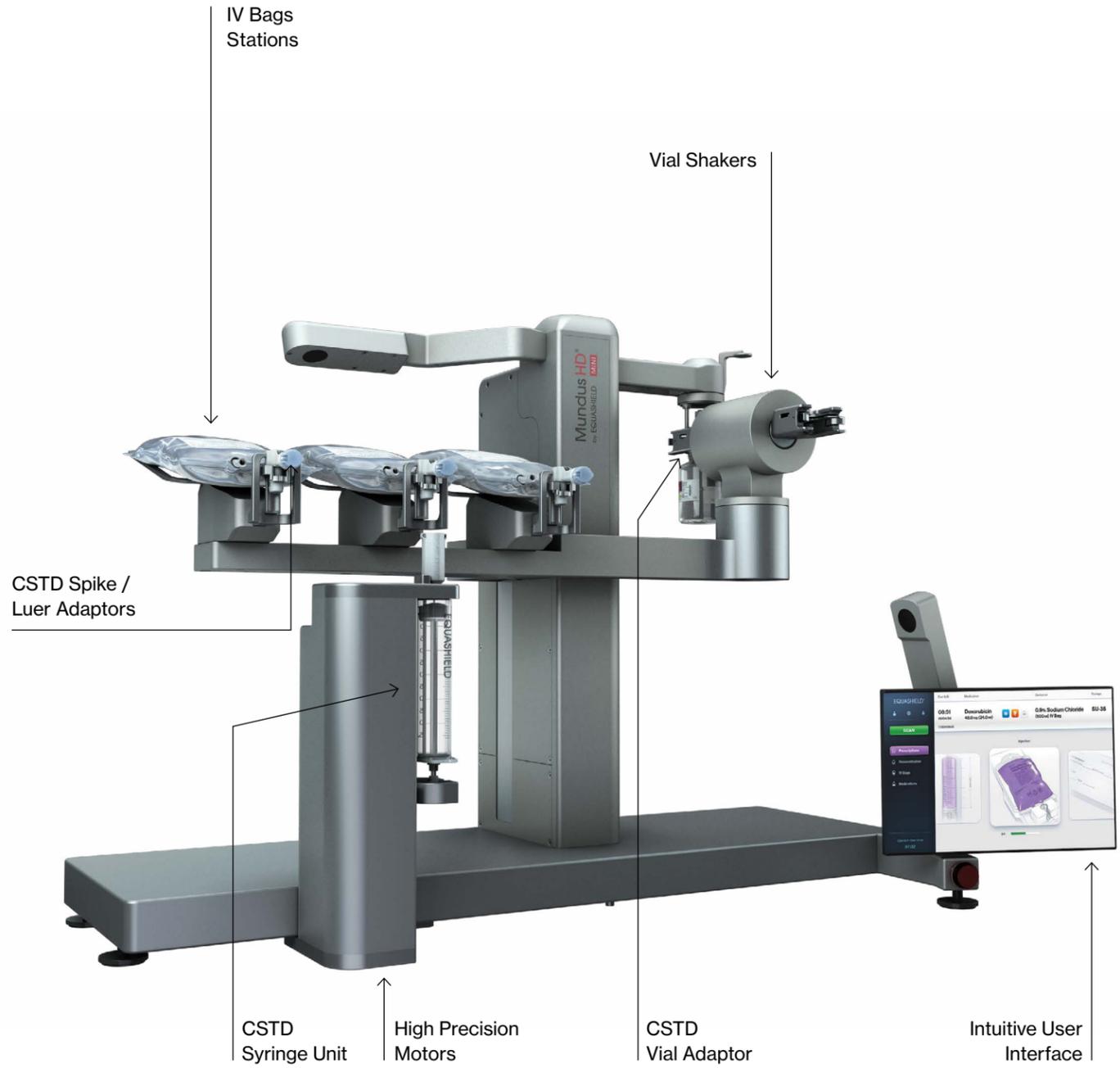
Maximized Throughput

Up to 37 individual doses per hour*, meeting compounding needs and allowing optimal patient care without sacrificing valuable labor resources.

Multi Step Image Processing Verification & Validation



Main Features Overview



Electrical Specifications

Ingress protection: IP 52 (DIN EN 60529)

Supply type: 1P

Connection type grounding: TT, TN

Input voltage: 110 -230 VAC

Frequency: 50 - 60 Hz

Electrical power consumption: 3.7 kW max

Arrival line protection required: Circuit breaker

Incoming line differential protection: Not expected

Framework for the EMC: Class A (according to IEC 61326-1)

Power supply: 24V

Environmental Specifications

Dimensions: H 580 x W 890 x D 390 mm (22.8 x 35 x 15.4 in)

Weight: 45 kg (99.2 lbs)

Operation Temperature: +10°C to +40°C (50°F to 104°F)

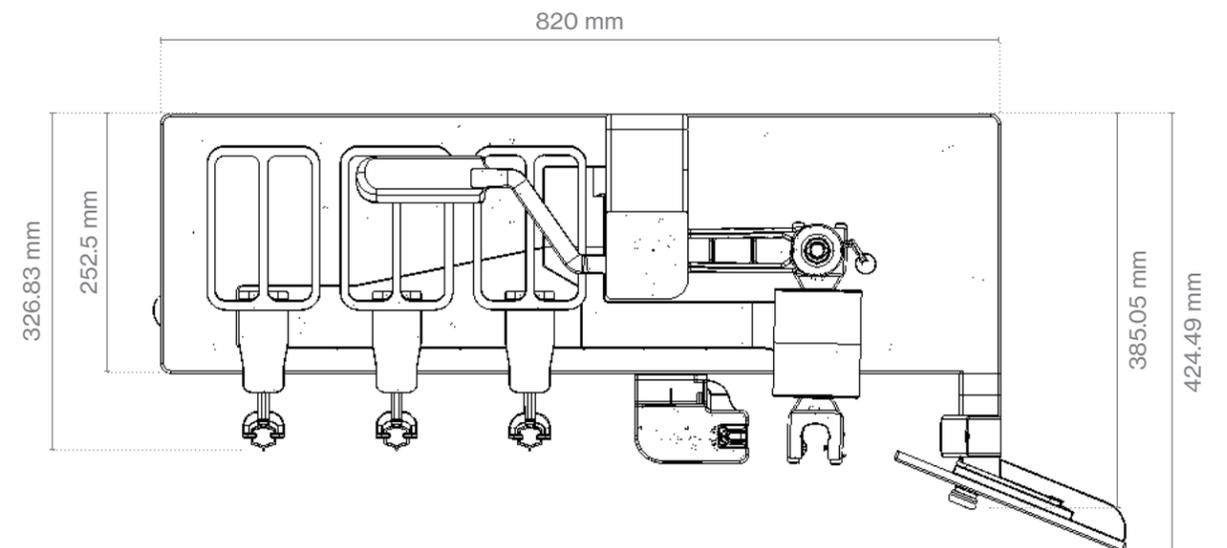
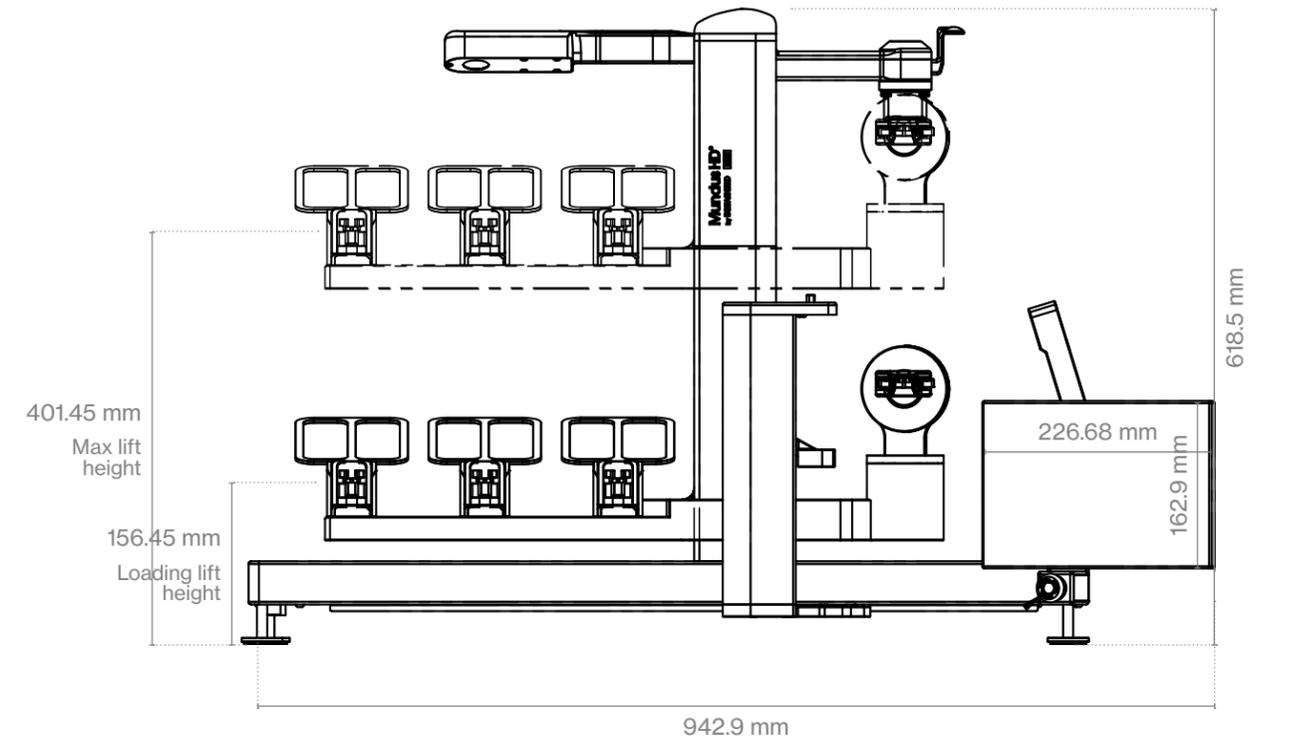
Operation Humidity: 0% to 60% (non-condensing)

Operation Altitude: 0 to 2000 meter (6561 feet) above sea level

* The device is designed to be used in a PEC placed in a clean room.

** The device is not suitable for use on mobile equipment.

Technical Specifications





Operating Procedures

The Mundus Mini offers various preparation options:

- / Individual or batch preparations
- / Compounding preparations utilizing one or more medication vials
- / IV Bag preparations
- / Syringe Unit preparations
- / Elastomeric pump preparations
- / Reconstitution with diluent from a separate IV Bag

Consumables Specifications

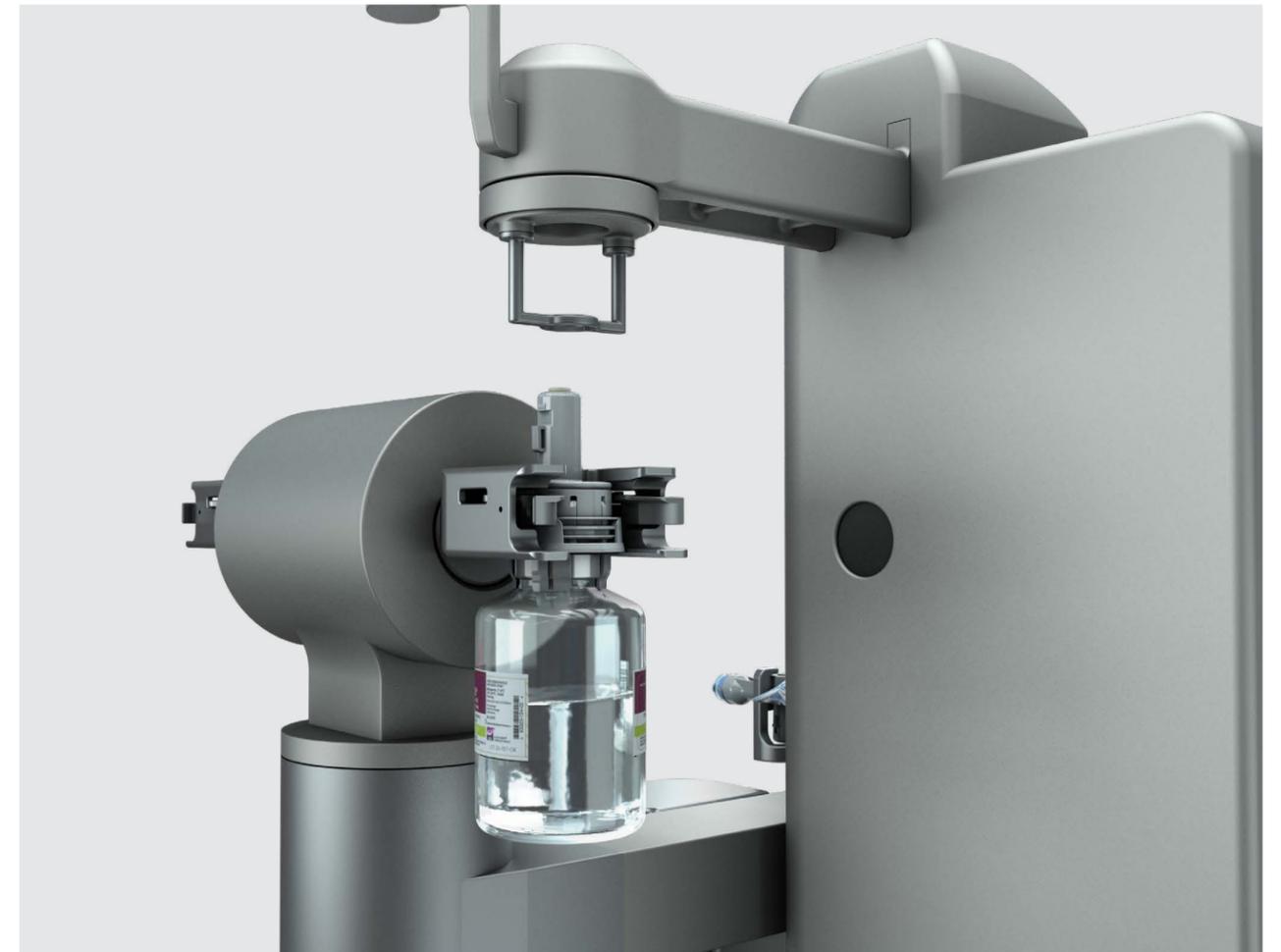
Syringe Unit Sizes	1 ml to 60 ml*
Vials Heights	20 mm to 95 mm (0.8 in to 3.7 in)
Vials Cap Diameters	13 mm and 20 mm (0.51 in and 0.79 in)
IV Bags	Different types, up to 1000 ml

*Excluding EQUASHIELD® SU-EZ60/2

Regulatory Compliance

The Mundus Mini HD complies with the following standards:

- / ISO 13485 Medical Devices – Quality management systems - Requirements for regulatory purposes.
- / US FDA 21 CFR Part 820 Quality System Regulation.
- / EU Machinery Directive 2006/42/EC.
- / EU Low Voltage Directive (LVD) 2014/35/EU.
- / EU Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- / EN ISO 14971 Medical devices - Application of risk management to medical devices.
- / EN 62304 Medical device software - Software life-cycle processes.
- / EN 60601-1 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance.
- / EN 60601-1-2 Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests.
- / EN IEC 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.
- / CE mark meeting the applicable European Community EC directive



EQUASHIELD[®]
Compounding Technologies



Learn more at www.equashield.com/mundus-mini

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