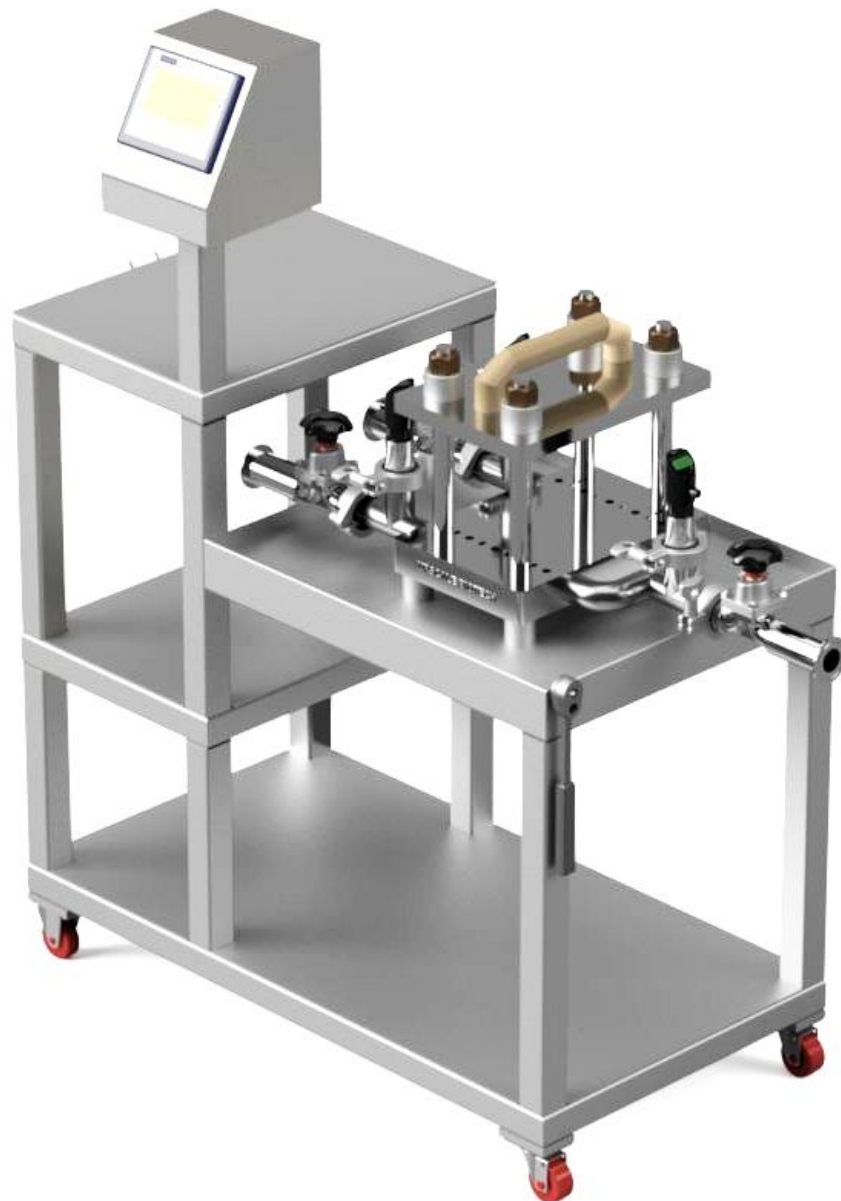


Product Datasheet

Cassette Holder Assembly



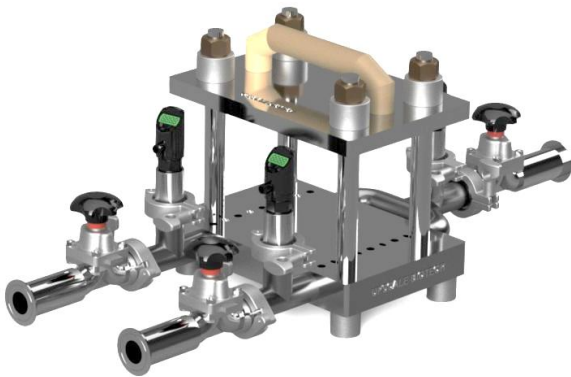
Description

The Cassette Holder can accommodate 0.5 m² to 5 m² cassettes from different make. The Holder assembly is designed with movable trolley and digital pressure sensors for ease of operation.

Key features

- Adjustable design to fit various cassettes securely.
- Comes with heavy duty trolley for easy mobility.
- Compartment for placing Pump, containers and Tools.
- Digital pressure sensors for Real-time monitoring and data storage through HMI.

Cassette Holder



- **Material and Build:** The Cassette Holder is made of 316 L Stainless Steel to withstand chemical exposure and repeated cleaning. A

large handle is given on top plate for easy handling.

- **Cassette slots:** The holder plates are designed to securely hold TFF cassettes in place. The cassettes are aligned in parallel to allow the flow of liquid through the filtration membrane. The spacers can be used to adjust the height of the top plate to accommodate different cassette sizes and provide a tight seal.
- **Easy assembly:** The bottom plate is provided with legs bolted with the trolley. The Cassette Holder is also easy to remove from trolley for operation in LAF.

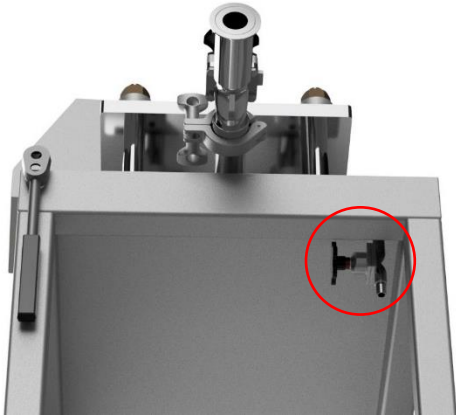
Trolley

The trolley is specially designed for the Cassette Holder and provides several benefits.

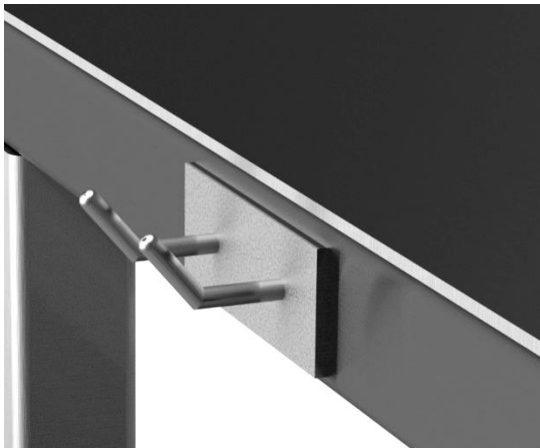
- **Easy Transport:** The trolley allows for the effortless movement of the Cassette Holder within lab or production facility. The mobility is particularly useful for moving between processing areas or accessing cleaning and maintenance stations.
- **Stability and Safety:** The trolley helps operator to easy movement and avoid carrying heavy components of the Cassette Holder. The lockable castor wheels ensure that the system remains stable during the running operation.
- **Compartment and Shelves:** The trolley comes with the compartment (300 mm X 450 mm) for pump placement. The large bottom

platform (500 mm X 450 mm) can be used to keep permeate collection container.

- **Easy drainage:** The ½ inch ball valve is given at tray bottom for easy drainage and spillage management.



- **Hook for bag hanging:** The hook is given which allows bags containing fluids such as feed solutions or buffer solutions to be hang securely, keeping them off the floor and easily accessible during the TFF process.



Digital Pressure Sensors

- **HMI Integration:** All three pressure sensors are integrated with HMI, provides accurate and Real-Time pressure monitoring of Feed line, Retentate line and permeate line.
- **Enhanced process monitoring:** A real time pressure curve offers immediate visual feedback on filtration performance. This helps in identifying trends, anomalies and deviations from the expected pressure profile.
- **Data Recording and Analysis:** The real time pressure curve can be recorded for documentation and quality control purposes. The pressure data can be analyzed to benchmark system performance and compare current runs with past results for analyzing the process trend.

Specification

Material of construction:

Cassette holder plates	316 L Stainless Steel
Trolley assembly	304 L Stainless Steel
Top plate handle	Polyamide/PP/PU
Connections	Sanitary tri connections
Spacers	316 L Stainless Steel
Nuts	Coated Bronze nuts

*Dimensions:

Holder (L X W X H)	47 cm X 30 cm X 30 cm
Trolley (L X W X H)	88 cm X 46 cm X 85 cm

*Dimension may vary based on customization done

Line Sizes:

Feed Line	1 inch or customizable
Retentate Line	1 inch or customizable
Permeate Line	¾ inch or customizable

Technical Data:

Pressure Sensor	Baumer/ E&H/Keller
Pressure Range	-1 to 5 bar
Cassette Area	0.5 m ² to 5 m ²
Operating Volume	50 L to 200 L
*Hold up Volume	88 ml (3/4 inch), 131 ml (1 inch)

*Hold up volume considering Tubing and holder plate

Included Accessories and Documents

Cassette Holder	1 No
Trolley with HMI	1 No
Digital Pressure Sensor	3 Nos.
1 inch Diaphragm Valve	3 Nos.
½ inch Ball Valve	1 No
Torque Wrench	1 No
Welding Documents	-
Calibration Certificates	-
User Manual	-

Ordering Information

Cassette Holder Assembly	2302CH001
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Please connect us on below email id for customized holder requests

vijayalakshmi@upscalebiotech.com