

Pre-filled syringe expulsion system

Unchained Labs' pre-filled syringe expulsion system is a standalone device that automates the grueling work of manually expelling PFSs. This automated syringe dispenser enables users to rapidly move samples from PFS to vial formats with controlled expulsion rates. The system can be fully integrated with Unchained Labs products via a built-in barcode reader and LEA software.



Specifications

Pre-filled syringe expulsion system (PN: F163490)

Description	Specification
Physical	484 mm W x 480 mm D x 885 mm H
Plates per run	1 plate of syringes
Vial plate compatibility	SLAS format
Syringes per plate	24 syringes (custom formats are also available)
Compatible vials	<ul style="list-style-type: none"> • 24 x 3 cc Schott Pharmaceuticals (15.5 mm OD x 30.4 mm H) (PN: 1396064, 1397900) • 24 x 5 cc Schott Pharmaceuticals (20.7 mm OD x 38.2 mm H) (PN: 1208708, 1403905) • Other vial sizes available through custom kits
Syringe compatibility	Made to customer's order
Maximum syringe body diameter	18 mm
Maximum syringe sheath diameter	9.5 mm
Minimum syringe sheath diameter	4.5 mm
Maximum sheath gripping force	45 N
Maximum syringe volume	Limited by MT plate size
Readable barcode types	All common 1D and 2D barcodes
Barcode size	<ul style="list-style-type: none"> • W: $\leq 1/3$ of the vial circumference • H: 55–75 mm above end of sheath
Barcode orientation	Vertical only
Maximum linear speed (non-dispense)	60 mm/s
Minimum dispensing speed for each syringe (recommended)	10 μ L/s

Pre-filled syringe expulsion system (PN: F163490), continued

Description	Specification
Maximum dispensing speed for each syringe (recommended)	100 μ L/s
Throughput for plates containing 24 syringes	12 plates/h (288 syringes/h)
Connector type	1/4" flexible tubing
Pressure	<ul style="list-style-type: none"> Nominal: 414 kPa (60 psi) Maximum: 690 kPa (100 psi)
Maximum flow rate	300 mL/m

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