

Large molecule liquid dispense

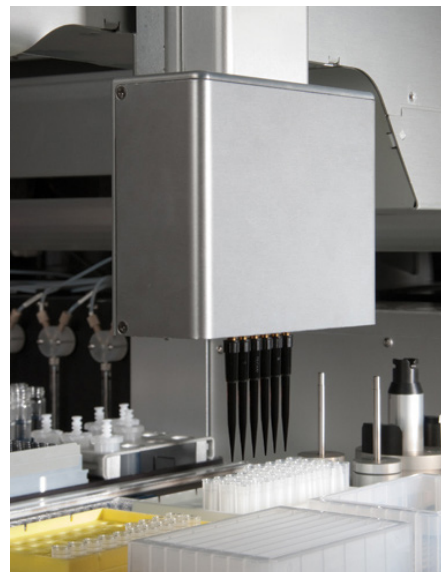
For Big Kahuna and Junior

Robust liquid dispensing is key to any lab automation platform. Air displacement pipetting technology with disposable tips enables a wide range of aqueous reagent transfer and reformatting options.

Specifications

8-tip (PN: F163517) liquid dispenser – fixed pitch

Description	Specification
Element type	Arm tool
Probe pitch configuration for 8-tip	9 mm
Probe dimensions	2.03 mm OD x 0.76 mm ID x 130 mm W (with swaged tip)



Accessories compatible with 8-tip (PN: F163517) liquid dispenser – fixed pitch

Unchained Labs part number	Tool
V11345	Probe, single, standard TFE coated
V10008	Probe, liquid dispense, 323 mm
V10599	Tubing, 1/8 OD x 1/16 ID, Tefzel
SG154796	Syringe pump

Pump syringes compatible with 8-tip (PN: F163517) liquid dispenser – fixed pitch

Unchained Labs part number	Syringe volume
V16990	50 µL
V131420	100 µL
V131421	250 µL
V131422	500 µL
V131416	1.0 mL
V131417	2.5 mL
V131418	5 mL
V131419	10 mL

6-tip liquid dispenser – variable pitch (PN: F159125)

Description	Specification
Element type	Arm tool
Physical	55 mm W x 150 mm D x 660 mm H
Number of tips	1–6
Tip pitch (6-tip)	9–20 mm
Tip pitch (4-tip)	9–27 mm
Tip pitch accuracy	±0.5 mm
Pitch control	Computer controlled from Automation Studio
Tip compatibility	Tecan DiTi tips
Tip pick up	Individually
Tip ejection	All loaded tips at once
Tip extension	15 mm, individually controlled
Tip supply	Standard Tecan racks of 96 tips located on deck
Wetted materials	SST, Teflon
Maximum tip insertion depth	≤disposable tip length

Accessories compatible with 6-tip liquid dispenser – variable pitch (PN: F159125)

Unchained Labs part number	Tool
SG154796	Syringe pump (tip and syringe compatibility will vary)
SG141248	Tecan disposable tip, passive plate rack
F159120	Tecan tip adapter

Syringes compatible with 6-tip liquid dispenser – variable pitch (PN: F159125)

Unchained Labs part number	Syringe volume
V16990	50 µL
V131420	100 µL
V131421	250 µL
V131422	500 µL
V131416	1000 µL

Example dispense precision of 6-tip liquid dispenser – variable pitch (PN: F159125)

Syringe size	Tip size	Dispense volume	Accuracy	Precision
250 µL	200 µL	15 µL	±5 µL	≤3%
250 µL	200 µL	100 µL	±5%	≤1%
1000 µL	200 µL	100 µL	±5%	≤1%
1000 µL	1000 µL	100 µL	±5%	≤1.5%

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