

HP D300e Digital Dispenser Instrument Specifications



Plate types	12, 24, 48, 96, 384, 1536 well plates; Plate height: 6-47 mm
Dispensing speed	11 pL – 10 uL in seconds
Overall dimensions	47 cm x 38 cm x 23 cm
Weight	14.1 kg (31.1 lb)

Supplies and dispensing specifications

	T8 + (10 uL fill)	T8+ (20 uL fill)	D4+
Fluid compatibility	70 – 100% DMSO or aqueous solutions* with: <ul style="list-style-type: none"> • Biomolecules* up to 300 kDa or 10,000 basepairs and up to 3 mg/mL • Small molecules < 800 Da up to 10 mM • Nanoparticles < 1 micron in diameter in suspension at concentrations < 0.5% 	DMSO or aqueous solutions* with: <ul style="list-style-type: none"> • Biomolecules up to 300 kDa or 10,000 basepairs and up to 1 mg/mL • Small molecules < 800 Da up to 10 mM • Nanoparticles < 1 micron in diameter in suspension at concentrations < 0.5% 	DMSO or aqueous solutions* with: <ul style="list-style-type: none"> • Biomolecules up to 300 kDa or 10,000 basepairs and up to 0.3 mg/mL • Small molecules < 800 Da up to 10 mM • Nanoparticles < 1 micron in diameter in suspension at concentrations < 0.5%
Dispensing volume range	11 pL – 10 uL	1 nL – 20 uL	1 nL – 200 uL
Dispensing volume increments	As low as 11 pL	As low as 11 pL	As low as 11 pL
Precision CV	< 8%*	< 8%	< 8%
Fluid waste	0.5 uL – 1.8 uL DMSO 2.5 – 4 uL aqueous	8 – 3.3 uL DMSO 4 – 5.5 uL aqueous	25 - 65 uL
Minimum fill volume	2 uL DMSO 4 uL aqueous	NA	50 uL

*Aqueous solutions except Master Mix fluids require surfactant addition and are limited to total buffer components < 150 mM.

*Biomolecules include, but are not limited to, proteins, antibodies, enzymes, nucleic acids, lipids and oligonucleotides.

*For volumes > 100 pL and test fluid of 100 percent DMSO without other additives or for volumes > 100pL and aqueous test fluids of 0.1 percent Brij 35 without other additives.