

CombiFlash[®] NextGen 300

Flash Chromatography System

The CombiFlash NextGen 300 chromatography system offers the most options in regards to system configurations. Now there are three different models to choose from based on your budget and application needs.

Setting the bar in flash chromatography performance

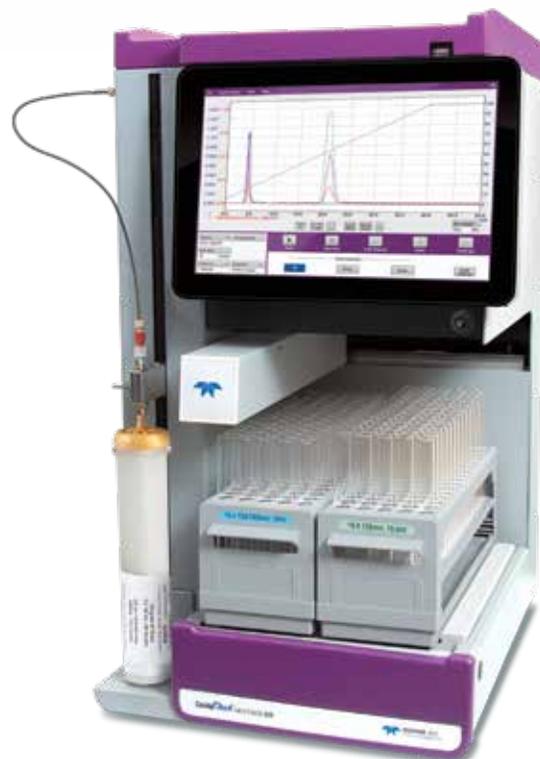
The CombiFlash NextGen 300 is configurable to meet your needs. Standard safety features include active vapor, solvent-level and waste-level sensing. The system is designed for liquid injections, operating at up to 300 psi (20 bar). The automated Solid Sample Load Injection Valve option can be added, which also enables baseline correction. You determine what your needs are; don't invest in unused or unwanted features.

Save time and solvent while increasing column loading.

The Focus Gradient Generator for flash delivers optimized, predictive preparative method development using the results of a scouting run more quickly and efficiently than TLC. The Focus Gradient Generator in the CombiFlash NextGen 300 makes doing calculations quick and easy, eliminating the need to run multiple TLCs with different mobile phase concentrations. When combined with a Purlon™ mass spectrometer, you actually know which peak represents your compound of interest to optimize the method around—no guessing which spot is the target material.

Can be fitted with an ELSD at the time of system purchase.

NextGen 300 is compatible with Purlon Mass Spectrometer or ELS Detection. Upgrade at the time of purchase or in the field.



CombiFlash[®] NEXTGEN 300

- **Straightforward**
Complete control on one screen
- **Compact**
Designed to take up minimal lab space
- **Flexible**
Configure to meet your specific needs
- **Faster**
New default methods with higher flows and steeper gradients speed up the purification without sacrificing performance
- **Greener**
Conserve solvent with optimized gradients

Standard System Features

- **Flow rates** from 1 to 300 mL/min
- **Operating pressure** up to 300 psi (20 bar)
- **Choice of UV, ELSD or MS options**
- **Customizable** to meet your application needs

Specifications: NextGen 300

Flow Rate Range:	1–300 mL/min
Sample Loading	Liquid and Manual Solid (standard) Automated Solid (option at time of purchase)
Column Size Compatibility:	4 g to 330 g (750 g, 1.5 kg and 3.0 kg with Large Column Holder)
Maximum Pressure:	-Up to 300 psi (20 bar) -Lower pressure limits user defined
UV Detection:	Variable UV 200–400 nm (PDA Technology)
Real Time UV	Standard
Spectral Display:	
Absorbing Solvent	Optional (with Automated Solid Sample Loading Option)
Baseline Subtract:	Loading Option)
ELSD Detection:	Integrated option that can be combined with UV
Pump Type:	Dual syringe
Number of Solvents:	Binary gradient, 4 solvents
Gradient Accuracy:	1% typical

3rd Solvent Modifier:	Standard
Gradient Formation:	Low pressure
Programmable Gradients:	Linear, step, isocratic
Touchscreen:	12" capacitive touchscreen
User Interface:	PeakTrak software
Software Upgrades:	Free
Real Time Method Editing:	Standard
Internal Vapor Sensor:	Standard
Fraction Collector:	Two internal rack positions
Vapor Enclosure for	Optional
Collection Racks:	
Lighted Rack Area:	Standard
Certification:	CE, TUV, ROHS
Dimensions (H x W x D):	26 x 14.1 x 17 in (66 x 36 x 43 cm)
Weight with ELSD:	74 lb (33.6 kg)
Weight without ELSD:	61 lb (27.7 kg)

CombiFlash NextGen 300 Order Numbers

68-5250-009 CombiFlash NextGen 300 System with 200–400 nm UV variable wavelength detector, 12" screen.

CombiFlash NextGen 300 Additional Detector Options

60-5257-003	Factory installed Solid Load Injection Valve for NextGen 300 only; Allows Automated Solid Sample Loading and Baseline Correction features.
60-5257-001	ELSD for CombiFlash NextGen 300 and 300+. (Additional installation cost for field installations).
60-5237-137	Air Pump for ELSD
68-5237-083	Purlon Mass Spectrometer "S" with Fluid Interface. Mass range from 10-1200 Dalton
68-5237-084	Purlon Mass Spectrometer "L" with Fluid Interface. Mass range from 10-2000 Dalton
25-0000-128	APCI Ion Source for S and L Mass Spec. Not included with Purlon
25-0000-129	ESI Ion Source for S and L Mass Spec. Not included with Purlon

CombiFlash NextGen 300 Field Options

60-5257-008	Sample Rack Vapor Enclosure for operation outside the hood.
60-5394-551	Large Column holder for RediSep columns 750 g, 1.5 kg, and 3.0 kg

CombiFlash Sample Injection Options

60-5237-047	Adjustable Solid Load Cartridge Cap (SLCC), fits 2.5 and 5 gram-size sample load cartridges.
60-5237-048	Adjustable Solid Load Cartridge Cap (SLCC), fits 12 and 25 gram-size sample load cartridges.
60-5237-044	Adjustable Solid Load Cartridge Cap (SLCC), fits 32 and 65 gram-size sample load cartridges.
68-1240-962	CombiFlash Sample Load Pump. PeriXus peristaltic pump.
02-9071-408	PeriXus, Norprene pump tubing Size 16, 50 ft

Rack Size

Diameter (mm) x Height (mm)	13 x 100	16 x 100	16 x 125	16 x 150	18 x 150	18 x 180	25 x 150	480 mL French Square Bottles*
# of Tubes (per rack)	108	75	75	75	70	70	30	12
PN (set of 2):	60-5237-013	60-5237-061	60-5237-031	60-5237-032	60-5237-033	60-5237-034	60-5237-035	60-5237-040

*1 Rack fits two positions on instrument (PN includes only one rack)



teledynelabs.com    

Teledyne LABS is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.

L-5216 Rev 12.0
02/24