

# CombiFlash<sup>®</sup> NextGen 300+

## Flash Chromatography System

Our CombiFlash NextGen flash chromatography system offers the most options for 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+ features all available performance and safety options. Flow rate range is from 1 to 300 mL/min at operating pressures up to 300 psi (20 bar). The system is fitted with a solid load injection valve that can be bypassed if you decide to perform a liquid injection. RFID technology comes standard and automatically reads the size and type of RediSep<sup>®</sup> or RediSep Gold<sup>®</sup> column being used for the purification. Based on this information, a default gradient and flow rate are programmed into the system. Simply insert the column into the stand, press Play and the run starts. This same RFID technology automatically reads the rack type being used, ensuring there is never a missed or overfilled tube. Active vapor, solvent and waste level monitoring are standard on the NextGen 300+. This ensures that the column never dries out during the purification run and there are no messy solvent spills

#### **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<sup>™</sup> 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<sup>®</sup> 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, UV-Vis ELSD or MS options**

## 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)
Column RFID Reader:	Standard
Maximum Pressure:	-Up to 300 psi (20 bar) -Lower pressure limits user defined
UV and UV-Vis Detection:	Variable UV 200–400 nm or Variable UV-Vis 200–800 nm (PDA Technology)
Real Time UV Spectral Display:	Standard
Absorbing Solvent Baseline Substrate:	Standard
ELSD Detection:	Integrated option with UV or UV-Vis
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" or 15" 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 Collection Racks:	Optional
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

68-5250-001	CombiFlash NextGen 300+ System with 200–400 nm UV variable wavelength detector, 12" screen.
68-5250-002	CombiFlash NextGen 300+ System with 200–800 nm UV-Vis variable wavelength detector, 12" screen.
68-5250-004	CombiFlash NextGen 300+ System with 200–800 nm UV-Vis variable wavelength detector, 15" screen.

## CombiFlash NextGen 300+ Factory Detector Options

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	PurIon Mass Spectrometer "S" with Fluid Interface. Mass range from 10-1,200 Dalton
68-5237-084	PurIon Mass Spectrometer "L" with Fluid Interface. Mass range from 10-2,000 Dalton
25-0000-128	APCI Ion Source for S and L Mass Spec. Not included with PurIon
25-0000-129	ESI Ion Source for S and L Mass Spec. Not included with PurIon

## 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)



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L-5214 Rev 9.0  
02/24