

CombiFlash[®] NextGen 300+ Flash Chromatography System

The CombiFlash NextGen flash chromatography system offers the most options in regards to system configurations. Now there are three different models to choose from based on your budgetary 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[®] or RediSep Gold[®] 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+. Ensures that the column never dries out during the purification run and 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 system makes calculations fast 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, UV-Vis ELSD or MS options**

Specifications: NextGen 300+

Flow Rate Range:	1–300 mL/min
Sample Loading Technique:	Liquid and Automated Solid
Maximum Pressure:	-Up to 300 psi (20 bar) -User defined pressure limits
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 Substrat:	Standard
ELSD Detection:	Integrated option with UV or UV-Vis
Number of Solvents:	Binary gradient, 4 solvents
Modifier 3rd Solvent:	Standard
Gradient Formation:	Low pressure
Programmable Gradients:	Linear, step, isocratic

User Interface:	12 or 15" capacitive touch screen
Fraction Collector:	Internal
Rack Size RFID Read:	Standard
Real Time Method Editing:	Standard
Active Solvent and Waste Level Monitoring:	Standard
Internal Vapor Sensor:	Standard
Vapor Enclosure for Collection Racks:	Optional
Audible Alarm:	Standard
Lighted Rack Area:	Standard
Certification:	TUV
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+

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 Options

60-5257-001	ELSD for CombiFlash NextGen 300 and 300+. (Additional installation cost for field installations).
-------------	---

CombiFlash NextGen 300+ Field Options

60-5257-008	Sample rack vapor enclosure for operation outside the hood.
-------------	---

CombiFlash Sample Injection Options

60-5237-047	Adjustable Solid Load Cartridge Cap (SLCC), fits 2.5 and 5 gram-size sample load cartridges. Includes one loading rod.
60-5237-048	Adjustable Solid Load Cartridge Cap (SLCC), fits 12 and 25 gram-size sample load cartridges. Includes one loading rod.
60-5237-044	Adjustable Solid Load Cartridge Cap (SLCC), fits 32 and 65 gram-size sample load cartridges. Includes one loading rod.

Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091

teledyneisco.com



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



L-5214 Rev 8.0
08/23