

IntelliFlash™ 310

DISCOVERY SYSTEM



Automated systems are designed to increase efficiency for the discovery chemist, but most systems make you wait while the equipment warms up. You told us you wanted a machine that was ready to run your sample when you were ready. So, we developed the IntelliFlash 310 with new features designed to make it ready to run.

Key Benefits

- ▶ **Advanced Run Software.** Overlay past runs with current run to verify performance of column, system, or purification. Modify settings post-run to simulate different results. Email system status alerts.
- ▶ **Safe.** Automatic pressure monitoring detects and safely handles potentially dangerous conditions. Solvent vapor detection pauses system activity if solvent vapor has been detected.
- ▶ **Rapid Column Air Purge.** Quickly removes solvent from purification column for environmentally-friendly disposal.
- ▶ **Highly Accurate.** Create a binary gradient system within $\pm 1\%$.
- ▶ **Enterprise-wide Networking.** Capabilities include data reporting, direct printing from instrument, email alerts, and saving chromatograms to the network.
- ▶ **Auto-diagnostic.** Multiple sensors communicate system's status. Notifies user before the start of the run.
- ▶ **On-the-Fly Gradient Changes.** Adjust the gradient during a run while looking at the chromatogram.
- ▶ **Sample Security.** Software features such as extend run and collect now protect your sample.
- ▶ **Automatic Post-run Purge.** Purges fluid path to reduce periodic maintenance and ensure system is ready for next run without purging column or affecting sample.



VARIAN

IntelliFlash™ 310

Instant-on Lamp

No warm-up time necessary. New technology allows for instant-on lamp, changes in wavelength during run, and elimination of flowcell buildup.

Advanced Rack Management with RFID

Automatically identifies each rack and ensures correct rack positioning. Rack retains run info, for easy recall of the last run, including the chromatogram.

Uninterrupted Solvent Supply

System senses solvent levels and automatically switches from empty containers to ensure uninterrupted run. Waste level monitoring.

Specifications

General	
Power	100-250V 50/60 Hz Automatic low power mode
Weight	55 lbs (25 kg)
Dimensions H x W x D	72 x 32 x 49 cm (28 x 12.25 x 19 in.)
Warranty	One year limited warranty (ask your local sales representative for details)
Modular Design	Allows for quick system expansion and upgrades

CS65 - Column Station 65	
Purification Channels	1 Standard, 2 Channel Optional
Dimensions H x W x D	65 x 16 x 28 cm (25 x 6 x 11 in.)
Column Sizes	Luer fittings, holds up to SF65 diameter and SF25-160 length
Solid Sample Capacity	5 mg - 33 g using optional DASi Loading Module
Liquid Sample Injection	5 - 35 mL, luer fitting on SuperFlash columns

QFP310 - Pump 310	
Solvent Delivery	Enhanced life, pulse free dual piston pump
Flow Rate	2 - 150 mL/min*, software flow adjustment
Gradient (# of solvents)	Binary: 4-Channel Standard, 2-Channel Optional
System Max. Pressure	7 bar (100 psi) with adaptive overpressure handling: quick overpressure will pause system, gradual increase will reduce flow to safe value

*Under unusual operating conditions, the maximum flow rate and flow rate accuracy may be reduced. Contact your local Varian office for details.

Method Guiding Functionality

System guides the chemist in TLC, gradient optimization, solvent selection, and column selection.

Supports Multiple Wavelengths

Simultaneously detects peaks and collects fractions for eight different UV wavelengths.

Intuitive Operation

Six clicks to start a run. Software also supports multiple runs, queued runs, reordering of runs, drag-and-drop copying of runs and gradients.

UVM3 - Variable Multi-Wavelength UV	
UV Detection	200-400 nm

UVS3 - Single Wavelength UV (optional)	
UV Detection	200 - 400 nm, filter selectable

FC310 - Fraction Collector 310	
Fraction Tube Sizes	31, 16, 18, 25 mm tube racks, 125 mL bottles, scintillation vials, funnels
Rack Design	Polypropylene, four split racks for extended run and offline tube changes
RFID Rack	Identifies each rack and ensures correct positioning
Pinch Valve	Eliminates loss during tube changes

CU3 - IntelliFlash Control Unit	
Architecture	Integrated 10.4 in. touchscreen, 800 x 600 resolution
Method and Run Storage	USB flash drive
Input	Touchscreen navigation and compact keyboard

IntelliPeak™ Software	
Software	Based on familiar Windows® XP operating system
Chromatogram Display	Real-time color, with relation to collected fractions
Sample ID	Identify samples in saved run data

IntelliFlash™ 310

Fully Integrated Four Solvent Option

Setup multiple solvent systems or daisy-chain solvent bottles for continuous availability of high-use solvent without interruption.

Large Touchscreen

User friendly touchscreen with stylus allows for easy setup and modification of runs. Screen tilts for ease of reading.

Compact

Economizes fume hood space, unit is only 72 x 32 x 49 cm (H x W x D).

Convenient Button Panel

Push-buttons on the control unit allow for quick modification of run parameters.

USB Flash Drive Port

Capture chromatograms on USB Flash Drive.

Rack Design

Four independent racks with RFID technology ensures correct rack size is used. Holds 160 standard 18 x 150 tubes.

Fraction Collector Design

Fraction drawer and easy side access allow for quick TLC spot checking. System operation is instantly paused when drawer is pulled out.

Pump 310

Proven fluid handling technology. The low pulsation pump provides even flow for high quality separation. Vapor sensor ensures pump safety.

Keyboard Drawer

Space saving drawer stores keyboard away from incidental solvent splashes and spills.

Column Station with Multi-column Capabilities

Connect 4 g – 600 g SuperFlash columns using luer fittings. Ability to link multiple stations.

Column Station Verification

IntelliFlash 310 software is integrated with column station ensuring correct column is inserted.



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Ordering Information - Accessories

Product Description	Part Number
MCC2-Multi-column Controller	AX1426-1
IFE310-Integral Fume Enclosure	AX1429-1
SBT310-Solvent Safety Tray	AX1441-1
Replacement USB Flash Drive	AX1430-1

IntelliFlash 310 Collection Racks

Product Description	Part Number
Rack Set, 13 x 100 mm w/ RFID	AX1442-1
Rack Set, 16 x 100 mm w/ RFID	AX1443-1
Rack Set, 16 x 150 mm w/ RFID	AX1444-1
Rack Set, 18 x 150 mm w/ RFID	AX1446-1
Rack Set, 25 x 150 mm w/ RFID	AX1447-1

Visit www.varianinc.com for information on our range of SuperFlash Columns and DASi Sample Loading Module.

For a quotation please contact your local Varian office.

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check our Web site.

