



## puriFlash® 5.050

Go beyond with our cross-over between  
Chromatography Flash & Preparative.

Optimized for Ultra Performance Flash Purification



### Components

Control unit  
Pump  
UV detector  
Fraction collector  
Solvent tray with drainage system  
Integrated column holder  
Integrated Dry-Load holder

### Pump

Flow rate range: 1 mL/min to 250 mL/min  
Max. operational flow rate: 250 mL/min  
Optimum flow rate for columns up to F0800 format  
Flow rate accuracy: +/- 2 % over 20 to 200 mL/min & 5 to 40 bar  
Flow rate repeatability: < 0.25  
Flow rate linearity: 0.98 < linearity < 1  
Pressure range: 0 to 50 bar  
Max. operational pressure: 50 bar  
Quaternary gradient valve  
Gradient tolerance step: < 3.5 %  
Air purge  
Washing discs

### Injection

Injection mode: liquid or solid  
"Load & Go": with automatic 6-ways valve which allows the use of staggered Dry-Load or a loop for an even more efficient injection  
RFID technology: automatic detection of the Dry-Load and the injection loop  
2 mL Stainless steel injection loop with RFID tag

### Detection

UV detector 200-400 nm  
UV detector 200-800 nm (included in the Pack-UVextended)  
"DAD" technology  
Multi-wavelength and scan collection over a band of 200 nm (or 600 nm with the Pack-UVextended)  
Spectral visualization and confirmation of purity  
Flow cell pathway: 0.3 mm / 40 µL  
Integrated ELSD detector (included in the Pack-iELSD)

### Column & holder compatibility

Normal phase (NP)  
Particle sizes: 10 µm, 15 µm, 25 µm, 30 µm, 40 µm, 50 µm  
Reverse phase (RP)  
Particle sizes: 15 µm, 30 µm, 50 µm  
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## Column & holder compatibility

Format: all Flash columns up to F0800 format (with optional Integrated column holder for F0800 flash column) & Dry-Load up to F0330 format are compatible

Integrated column holder  
Integrated Dry-Load holder

RFID technology: automatic detection of the columns

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## Fraction collector

Capacity:

- 3 racks
- 132 test tubes (18 x 150 mm)

Technology:

- Automatic cleaning of the fraction collector needle (to avoid cross-contamination with the previous purification)
  - RFID: automatic detection of the racks installed in the fraction collector
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## Proposed racks

Delivery includes a choice of 3 racks from the following list:

- Rack for test tubes:  
13 x 73 mm | 13 x 100 mm | 16 x 150 mm |  
18 x 150 mm | 18 x 180 mm | 21 x 150 mm |  
25 x 150 mm | 28 x 150 mm | 29,5 x 200 mm
- Rack for 250 mL Schott bottles

Position of the numbered tubes (to facilitate identification of tubes)

Available additional accessory:

- Rack for funnels (in option)

Position of the numbered tubes (to facilitate identification of tubes)

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## Software & control unit

Control via InterSoft® X software included:

- Genius, Artificial Intelligence
- "Flash & Go"™ technology: compatible with our smartphone app "TLC to Flash & Prep"
- "Boost & Go"™ technology

Windows 10

Remote control

Touchscreen 15"

8 USB ports

2 RJ45 ports

Bluetooth/Wi-Fi key

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## System optimization

Tubing after pump: 1.6 mm internal diameter

Flow cell pathway: 0.3 mm / 40 µL

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## Safety

System light status

Solvent tray with drainage system

Level sensor for solvents and waste

Retention tray with leak detectors in the pump, Dry-Load holder, UV detector, valve, fraction collector & iELSD (included in the Pack-iELSD)

"Fume Enclosure" technology (allows the use of the purification system without a hood)

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## Materials in contact with solvents

ETFE

PTFE

316 L Stainless steel

Hastelloy

PEEK

Kalrez

Sapphire

Ruby

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## Materials in contact with solvents

Kel-F  
Zirconium  
PPS  
Nitronic 60  
Borosilicate glass

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## Accessories box

Tubing with fitting & ferrules:

- Tygon tubing for solvent tray drainage
- Level sensor tubing (x5)
- Suction tubes (x4)
- Stainless steel adapter for injection (injection valve port 1)
- ETFE tubing 1/8" injection valve port 2 to Dry-Load outlet
- ETFE tubing 1/8" injection valve port 5 to Dry-Load inlet
- ETFE tubing 1/8" injection valve port 3 to column C1 inlet
- ETFE tubing 1/8" injection valve port 6 to waste
- ETFE tubing 1/8" fraction collector outlet to waste
- ETFE tubing 1/8" draining for fraction collector
- 2 ml Stainless steel loop with RFID tag

Accessories ELSD (included in the Pack-iELSD):

- Reduction gear tubing 6 mm to tubing 4 mm
- White NYLON pneumatic tube length 3 m
- In-line filter 20 microns
- ETFE tubing from in-line filter to detector
- ETFE tubing from C1 column outlet to in-line filter

Cables:

- RFID cable
- USB/USB cable - unit control to fraction collector
- Power cord - screen to fraction collector
- HDMI cable - screen to unit control
- USB/MINI USB cable - screen to unit control
- LED'S cable - unit control to fraction collector
- Communication cable Sub-D9 male/female (1 m) - unit control to fraction collector
- Communication cable Sub-D9 male/female (0.5 m) - unit control to pump
- Communication cable Sub-D9 female/female (1 m) - unit control to UV detector
- Communication cable Sub-D9 female/female (1 m) - unit control to iELSD (included in the Pack-iELSD)
- Power cord - pump to fraction collector + unit control to fraction collector (x2)
- General power cable (model according to the country of destination)

Solvent tray

Clips P

Screw CHC M4x8

Grower M4 (x3)

Stylus with its clip

UV cell test

Rear fastening (x2)

Screws BHC 4x10 (x2)

UV trapdoor

ELSD trapdoor

Racks (x3)

Compliance report

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## Communication

Communication cable Sub-D9 male/female (1 m) - unit control to fraction collector

Communication cable Sub-D9 male/female (0.5 m) - unit control to pump

Communication cable Sub-D9 female/female (1 m) - unit control to UV detector

Communication cable Sub-D9 female/female (1 m) - unit control to iELSD (included in the Pack-iELSD)

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Power supply

110 V or 220 V

Dimensions & Weight

Weight : 49 kg

