puriFlash® 5.050

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

Optimized for Ultra Performance Flash Purification

Non-contractual picture.
System delivered without pump door.

Flash & Go | Load & Go | Boost & Go | RFID | Flow rate 250 mL/min | Max. pressure 50 bar

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: 0.1 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
…

| Column & holder compatibility | Format: all Flash columns up to F0800 (with optional integrated column support for F0800 columns) are compatible and can be used at the optimum flow rate; in addition, larger columns can be used with an external column support and below the optimum flow rate. Dry-Load columns up to size F0330 are compatible. Integrated column holder. Integrated Dry-Load holder.

RFID technology: automatic detection of the columns |
|---|---|
| **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 |
| **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:
• Bottle tray (in option)
• Rack for funnels (in option)

Position of the numbered tubes (to facilitate identification of tubes) |
| **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 |
| **System optimization** | Tubing after pump: 1.6 mm internal diameter
Flow cell pathway: 0.1 mm / 40 µL |
| **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) |
| **Materials in contact with solvents** | ETFE
PTFE
316 L Stainless steel
Hastelloy
PEEK
Kalrez
Sapphire
Ruby
… |

Materials in contact with solvents	Kel-F Zirconium PPS Nitronic 60 Borosilicate glass

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" column C1 outlet to detector
- 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 colunm outlet to in-line filter

Cables:
- RFID cable
- USB/USB cable - unit control 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 (x2)
Vis CHC M4x8 (x4)
Grower M4 (x4)
Stylus with its clip
UV cell test
Rear fastening (x2)
Screws BHC 4x10 (x2)
Grower M4 (x2)
UV trapdoor
ELSD trapdoor
Racks (x3)
Compliance report

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)

Power supply   110 V or 220 V

Dimensions & Weight   Weight : 49 kg

75 cm (29.5")

40 cm (15.75")   51 cm (20")