puriFlash® 5.250

small but limitless

Optimized for your preparative purifications

Non-contractual picture.
System delivered without pump door.

Flash & Go   Load & Go   Boost & Go   RFID   Débit 250 ml/min   Pression max 250 bar

Components

Control unit
Pump
UV detector
Fraction collector
Solvent tray with drainage system
2 integrated column holders or 3 column holders *(included in Pack-Multi)*
2 integrated Dry-Load holders

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 80mm id
Flow rate accuracy: +/- 2 % over 20 mL/min to 250 mL/min & 5 to 200 bar
Flow rate repeatability: < 0.25
Flow rate linearity: 0.98 < linearity < 1
Pressure range: 0 to 250 bar
Max. operational pressure: 250 bar
Quaternary gradient valve
Gradient tolerance step: < 3.5 %
Air purge
Washing discs
Washing pump allows circulation of water to prevent crystalline deposits on the pump piston *(included in Pack-PWD)*

Injection

Injection mode: liquid or solid
"Load & Go" technology: with automatic 10-way valve that allows the use of staggered dry load or loops for even more efficient injection
"RFID technology": automatic detection of dry load and injection loops
Stainless steel injection loops 2 mL and 5 mL 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 Pack-iELSD)*

Column & holder compatibility

Normal phase (NP)
Particle sizes: 5 µm, 10 µm, 15 µm, 25 µm, 30 µm, 50 µm
Reverse phase (RP)
Particle sizes: 5 µm, 10 µm, 15 µm, 25 µm, 30 µm, 50 µm

Format : all Flash columns up to F0800 ((with the integrated column support option for the F0800 format column) & Dry-Load up to F0330 size are compatible.
all preparative column up to 80mm ID are compatible

2 integrated column holders or 3 column holders (included in Pack-Multi)
2 integrated Dry-Load holders

RFID technology: automatic detection of the columns

Fraction collector

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

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
- 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: 0.3 mm / 40 µL

Safety

System light status
Solvent tray with drainage system
Level sensor for solvents and waste
Retention tray with leak detectors:
- for the pump,
- for the UV detector,
- for the valve, Dry-Load holder,
- for the fraction collector,
- for the fraction iELSD *(included in Pack-iELSD)*
"Fume Enclosure" technology *(allows the use of the purification system without a hood)*

Materials in contact with solvents	ETFE

Materials in contact with solvents

ETFE
PTFE
316 L Stainless steel
Hastelloy
PEEK
Kalrez
Sapphire
Ruby
Kel-F
Zirconium
PPS
Nitronic 60
Borosilicate glass

Accessories box

Tubing with fitting & ferrules:
- Tygon tubing for solvent tray drainage
- Level sensor tubing ans waste (x5)
- Suction tubes (x4)
- SP-stainless steel adapter for injection (injection valve port 1)
- ETFE tubing 1/8" fraction collector outlet to waste
- ETFE tubing 1/8" draining for fraction collector
- 2 ml & 5 ml Stainless Steel loop with RFID tag

5.250 Flash version:
- ETFE tubing column C2 outlet to 6-ways valve port 3
- ETFE tubing 6-ways valve port 4 to detector inlet
- ETFE tubing column C1 outlet to 6-ways valve port 5
- ETFE tubing Dryload DYL2 outlet to 10-ways valve port 2
- ETFE tubing Dryload DYL1 outlet to 10-ways valve port 10
- ETFE tubing 10-ways valve port 3 to inlet column C2
- ETFE tubing 10-ways valve port 5 to inlet Dryload DYL2
- ETFE tubing 10-ways valve port 7 to inlet Dryload DYL1
- ETFE tubing 10-ways valve port 6 to waste
- ETFE tubing 10-ways valve port 9 to inlet column C1

5.250 Pack-Multi Flash version:
- ETFE tubing column C1 outlet to 6-ways valve port 5
- ETFE tubing Dryload DYL2 outlet to 10-ways valve port 2
- ETFE tubing Dryload DYL1 outlet to 10-ways valve port 10
- ETFE tubing tubing 10-ways valve port 5 to inlet Dryload DYL2
- ETFE tubing 10-ways valve port 7 to inlet Dryload DYL1
- ETFE tubing 6-ways selection valve port 2 to column C3 inlet
- ETFE tubing 6-ways selection valve port 6 to column C2 inlet
- ETFE tubing 10-ways valve port 6 to waste
- ETFE tubing 10-ways valve port 9 to column C1 inlet
- ETFE tubing column C3 outlet to 6-ways selection valve port 3
- ETFE tubing column C2 outlet to 6-ways selection valve port 5

5.250 Prep version:
- ETFE tubing column C2 outlet to 6-ways valve port 3
- ETFE tubing column C1 outlet to 6-ways valve port 5
- PEEK tubing Dryload DYL2 outlet to 10-ways valve port 2
- PEEK tubing 10-ways valve port 3 to inlet column C2
- PEEK tubing 10-ways valve port 5 to inlet Dryload DYL2
- PEEK tubing 10-ways valve port 7 to inlet Dryload DYL1
- PEEK tubing 10-ways valve port 9 to column C1 inlet
- PEEK tubing Dryload DYL1 outlet to 10-ways valve port 10
- Adapter 5/16''-24 female to 10-32 male
- Stainless steel union 1/8"
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Accessories box	5.250 Pack-Multi version Prep :

5.250 Pack-Multi version Prep :
- ETFE tubing column C1 outlet to 6-ways valve port 5
- PEEK tubing Dryload DYL2 outlet to 10-ways valve port 2
- PEEK tubing tubing 10-ways valve port 5 to inlet Dryload DYL2
- PEEK tubing 10-ways valve port 7 to inlet Dryload DYL1
- PEEK tubing 6-ways selection valve port 2 to column C3 inlet
- PEEK tubing 6-ways selection valve port 6 to column C2 inlet
- PEEK tubing 10-ways valve port 9 to column C1 inlet
- PEEK tubing Dryload DYL1 outlet to 10-ways valve port 10
- PEEK tubing column C3 outlet to 6-ways selection valve port 3
- PEEK tubing column C2 outlet to 6-ways selection valve port 5
- Adapter 5/16''-24 female to 10-32 male
- Stainless steel union 1/8"

ELSD accessories (included in Pack-iELSD)
- Reduction gear tubing 6 mm to tubing 4 mm
- Pneumatic white nylon tubing lenght 3m
- In-line filter 20 microns
- ETFE tubing from in-line filter to detector
- ETFE tubing 6-ways selection valve port 4 to in-line filter

PWD accessories:
- Tubing kit PWD

Cables :
- RFID cable (x4)
- 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 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 Pack-iELSD)*
- Power cord - pump to fraction collector + unit control to fraction collector (x2)
- General power cord

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

Communication	Communication cable Sub-D9 male/female (1 m) - 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 supply	110 V or 220 V
Dimensions & Weight	Weight: 50 kg

75 cm (29.5")

40 cm (15.75")　　51 cm (20")