



puriFlash® 5.400-UV

Step into Ultra Purification

Designed to excel in method development and purification of rare and high quality sample products, this device will leave you nothing less than ultra-satisfied.



Components

Control unit
Pump
UV detector
Fraction collector
Solvent tray with drainage system
2 integrated column holders

Pump

Flow rate range : 1 mL/min to 125mL/min
Max. operational flow rate : 125mL/min
Optimum flow rate for columns up to 60mm ID
Flow rate accuracy: +/- 2.5% from 3.5mL/min to 100mL/min & 5 to 320 bar
Flow rate repeatability : < 0.25
Flow rate linearity : 0.98 < linearity < 1
Pressure range : 0 to 400 bar
Max. operational pressure: 400 bar
Quaternary gradient valve
Gradient tolerance step: < 3.5%
Washing discs
Washing pump allows circulation of water to prevent crystalline deposits on the pump piston (included in Pack-PWD)

Injection

Injection mode: liquid
"Load & Go" technology: with automatic 10-way valve that allows the use of loops for even more efficient injection
Stainless steel injection loops 2mL and 20µL

Detection

UV detector 200-400nm
UV detector 200-800nm (included in the Pack-UVextended)
"DAD" technology
Multi-wavelength and scan collection over a band of 200nm (or 600nm with the Pack-UVextended)
Spectral visualization and confirmation of purity
Flow cell pathway: 1.0mm / 15µL

Column & holder compatibility

Normal phase (NP)
Particle sizes: 3µm, 5µm, 10µm, 15µm, 25µm, 30µm, 50µm
Reverse phase (RP)
Particle sizes: 3µm, 5µm, 10µm, 15µm, 25µm, 30µm, 50µm
Format: all preparative column up to 60mm ID are compatible
2 integrated column holders (holder n°1: col. ≥ 20mm ID - holder n°2: col. 7.8 - 10mm ID)

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 73mm 13 x 100mm 16 x 150mm 18 x 150mm 18 x 180mm 21 x 150mm 25 x 150mm 28 x 150mm 29.5 x 200mm • Rack for 250mL 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 • "Boost & Go"™ technology Windows 10 Remote control Touchscreen 15" 8 USB ports 2 RJ45 ports Bluetooth/Wi-Fi key
System optimization	Tubing after pump: 0.5 & 0.75mm internal diameter Flow cell pathway: 1.0mm / 15µL
Safety	System light status Solvent tray with drainage system Level sensor for solvents and waste Retention tray with leak detectors in the pump, column holder, UV detector, valve and fraction collector "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 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)
- ETFE tubing collector to Waste
- SS tubing injection valve port 3 to C2 inlet
- SS tubing injection valve port 6 to waste
- SS tubing injection valve port 9 to C1 inlet
- PEEK tubing repartition valve port 3 to C2 outlet
- PEEK tubing repartition valve port 4 to UV cell inlet
- PEEK tubing repartition valve port 5 to C1 outlet
- PEEK tubing BPR outlet to collector inlet
- PEEK tubing UV cell outlet to BPR inlet
- SS port for injection (injection valve port 1)
- Loop 2mL
- Loop 20µL
- External UV cell 1mm PEEK
- BPR 100PSI
- Column holder clip 12mm
- UV cell support
- Union 1/16"

PWD accessories:

- PWD Tubing Kit

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'S cable - unit control to fraction collector
- Communication cable Sub-D9 male/female (1m) - unit control to fraction collector
- Communication cable Sub-D9 male/female (0.5m) - unit control to pump
- Communication cable Sub-D9 female/female (1m) - unit control to UV detector
- 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

iELSD 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 (0.5m) - unit control to pump
Communication cable Sub-D9 female/female (1 m) - unit control to UV detector

Power supply

110V or 220V

Dimensions & Weight

Weight: 50kg

