



## 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)

<b>Fraction collector</b>	<p>Capacity:</p> <ul style="list-style-type: none"> <li>• 3 racks</li> <li>• 132 test tubes (18 x 150mm)</li> </ul> <p>Technology:</p> <ul style="list-style-type: none"> <li>• Automatic cleaning of the fraction collector needle (to avoid cross-contamination with the previous purification)</li> <li>• RFID: automatic detection of the racks installed in the fraction collector</li> </ul>
<b>Proposed racks</b>	<p>Delivery includes a choice of 3 racks from the following list:</p> <ul style="list-style-type: none"> <li>• Rack for test tubes: <ul style="list-style-type: none"> <li>13 x 73mm   13 x 100mm   16 x 150mm</li> <li>18 x 150mm   18 x 180mm   21 x 150mm</li> <li>25 x 150mm   28 x 150mm   29.5 x 200mm</li> </ul> </li> <li>• Rack for 250mL Schott bottles</li> <li>• Rack for funnels (in option)</li> </ul> <p>Position of the numbered tubes (to facilitate identification of tubes)</p>
<b>Software &amp; control unit</b>	<p>Control via ClearPeak™ software included:</p> <ul style="list-style-type: none"> <li>• Genius, Artificial Intelligence</li> <li>• "Boost &amp; Go"™ technology</li> </ul> <p>Windows 10 Remote control Touchscreen 15" 8 USB ports 2 RJ45 ports Bluetooth/Wi-Fi key</p>
<b>System optimization</b>	<p>Tubing after pump: 0.5 &amp; 0.75mm internal diameter Flow cell pathway: 1.0mm / 15µL</p>
<b>Safety</b>	<p>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)</p>
<b>Materials in contact with solvents</b>	<p>ETFE PTFE 316 L Stainless steel Hastelloy PEEK Kalrez Sapphire Ruby Kel-F Zirconium PPS Nitronic 60 Borosilicate glass</p>

## 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

