



interchim®



puriFlash® 5.020 5X

Boost the productivity
of your entire laboratory

Optimized for your Ultra Performance Flash Purification



Flow rate
300 mL/min



Max. pressure
20 bar

Components

Control unit
Pump
UV detector
Fraction collector
Solvent tray with drainage system
5 Integrated column holders

Pump

Flow rate range: 1 mL/min to 300 mL/min
Max. operational flow rate: 300 mL/min
Optimum flow rate for columns up to F0800 format
Flow rate accuracy: +/- 2 % over 20 to 200 mL/min & 5 to 16 bar
Flow rate repeatability: < 0.25
Flow rate linearity: $0.98 < \text{linearity} < 1$
Pressure range: 0 to 20 bar
Max. operational pressure: 20 bar
Quaternary gradient valve
Gradient tolerance step: < 3.5 %
Air purge

Injection

Injection mode: liquid or solid
"Load & Go" technology: with automatic 6-way valve which allows the use of a loop for an even more efficient injection
2 mL Stainless steel 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 iELSD pack*)

Column & holder compatibility

Normal phase (NP)
Particle sizes: 15 µm, 25 µm, 30 µm, 40 µm, 50 µm
Reverse phase (RP)
Particle sizes: 15 µm, 30 µm, 50 µm

Format: all Flash columns up to F0330 format & up to F0800 format on the front position (*with optional Integrated column holder for F0800 flash column*) are compatible

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Column and holder compatibility

5 Integrated column holders

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

Available additional accessory:

- Rack for funnels

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 in the pump, column holders, 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

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 1/8" selection valve to column C1/C2/C3/C4/C5 inlet (x5)
- ETFE tubing 1/8" column C1 outlet to selection valve
- ETFE tubing 1/8" column C2/C3 outlet to selection valve (x2)
- ETFE tubing 1/8" column C4/C5 outlet to selection valve (x2)
- ETFE tubing 1/8" selection valve to detector inlet
- Stainless steel adapter for injection (injection valve port 1)
- 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 iELSD pack*):

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

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 (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

Rack (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

