



puriFlash® 5.030

Or the partner
for your everyday challenges.

Optimized for your Ultra Performance Flash Purification



Flash
& Go



Load
& Go



Boost
& Go



Flow rate
300 mL/min



Max. pressure
30 bar

Components

Control unit
Pump
UV detector
Fraction collector
Solvent tray with drainage system
Integrated column holder
Integrated Dry-Load holder *(included in the Pack 4-ways electrical valve + kit for PF-5.030)*

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: $\pm 2\%$ over 20 to 200 mL/min & 5 to 24 bar
Flow rate repeatability: < 0.25
Flow rate linearity: $0.98 < \text{linearity} < 1$
Pressure range: 0 to 30 bar
Max. operational pressure: 30 bar
Quaternary gradient valve
Gradient tolerance step: $< 3.5\%$
Air purge

Injection

Injection mode: liquid or solid
"Load & Go" technology: staggered Dry-Load for even more efficient injections automated via a 4-ports electric valve *(included in the Pack 4-ways electrical valve + kit for PF-5.030)*
RFID technology: automatic detection of the Dry-Load *(included in the Pack 4-ways electrical valve + kit for PF-5.030)*

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 & support 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.

Only 21.2 mm and 30 mm ID preparative columns are compatible

Dry-Load columns up to size F0330 are compatible (*included in the Pack 4-ways electrical valve + kit for PF-5.030*).

Integrated column holder

Integrated Dry-Load holder (*included in the Pack 4-ways electrical valve + kit for PF-5.030*)

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 (in option)
- Bottle tray (in option)

Position of the numbered tubes (to facilitate identification of tubes)

Software & control unit

Control via ClearPeak™ 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, UV detector, fraction collector, iELSD (*included in the Pack-iELSD*) & valve, Dry-Load holder (*included in the Pack 4-ways electrical valve + Kit for PF-5.030*)

"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" pump to column C1 inlet
- ETFE tubing 1/8" fraction collector outlet to waste
- ETFE tubing 1/8" draining for fraction collector

Accessories Pack 4-ways electrical valve + kit for PF-5.030:

- ETFE tubing 1/8" injection valve port 1 to Dry-Load outlet (*included in the Pack 4-ways electrical valve + kit for PF-5.030*)
- ETFE tubing 1/8" injection valve port 4 to Dry-Load inlet (*included in the Pack 4-ways electrical valve + kit for PF-5.030*)
- ETFE tubing 1/8" injection valve port 2 to column C1 inlet (*included in the Pack 4-ways electrical valve + kit for PF-5.030*)
- ETFE tubing 1/8" column C1 Outlet to detector (within pack -iELSD)

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 line filter to detector
- ETFE tubing from column C1 outlet to the filter online

Cables:

- RFID cable (included if ordered from pack 4 ways electrical valve + kit for PF-5.030)
- 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 (x2)

Screw CHC M4x12 (x2)

Screw CHC M4x16 (x2)

Grower M4 (x4)

Stylus with its clip

UV cell test

Rear fastening (x2)

Screws BHC M4x10 (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 <i>(included in the Pack-iELSD)</i>
Power supply	110 V or 220 V
Certification	CE, TUV, ROHS
Dimensions & Weight	Weight: 49 kg

