



Non-contractual picture.
System delivered without pump door.

puriFlash® 5.020

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
20 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)*

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 < 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: staggered Dry-Load for even more efficient injections automated via a 4-ports electric valve *(included in the Pack 4-ways electrical valve)*
RFID technology: automatic detection of the Dry-Load *(included in the Pack 4-ways electrical valve)*

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 Pack-iELSD)*

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
...

Column & support compatibility

Format: all Flash columns up to F0800 format (with optional Integrated column holder for F0800 flash column) & Dry-Load up to F0330 format are compatible (*included in the Pack 4-ways electrical valve*)

Integrated column holder

Integrated Dry-Load holder (*included in the Pack 4-ways electrical valve*)

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
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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)

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, UV detector, fraction collector, iELSD (*included in the Pack-iELSD*) & valve, Dry-Load holder (*included in the Pack 4-ways electrical valve*)

"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" injection valve port 1 to DryLoad outlet (*included in the Pack 4-ways electrical valve*)
- ETFE tubing 1/8" injection valve port 4 to DryLoad inlet (*included in the Pack 4-ways electrical valve*)
- ETFE tubing 1/8" injection valve port 2 to column C1 inlet (*included in the Pack 4-ways electrical valve*)
- ETFE tubing 1/8" fraction collector outlet to waste
- ETFE tubing 1/8" draining for fraction collector

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

Cables:

- RFID cable
- 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 - 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 (*included in the Pack-iELSD*)

Power supply

110 V or 220 V

Dimensions & Weight

Weight: 49 kg

