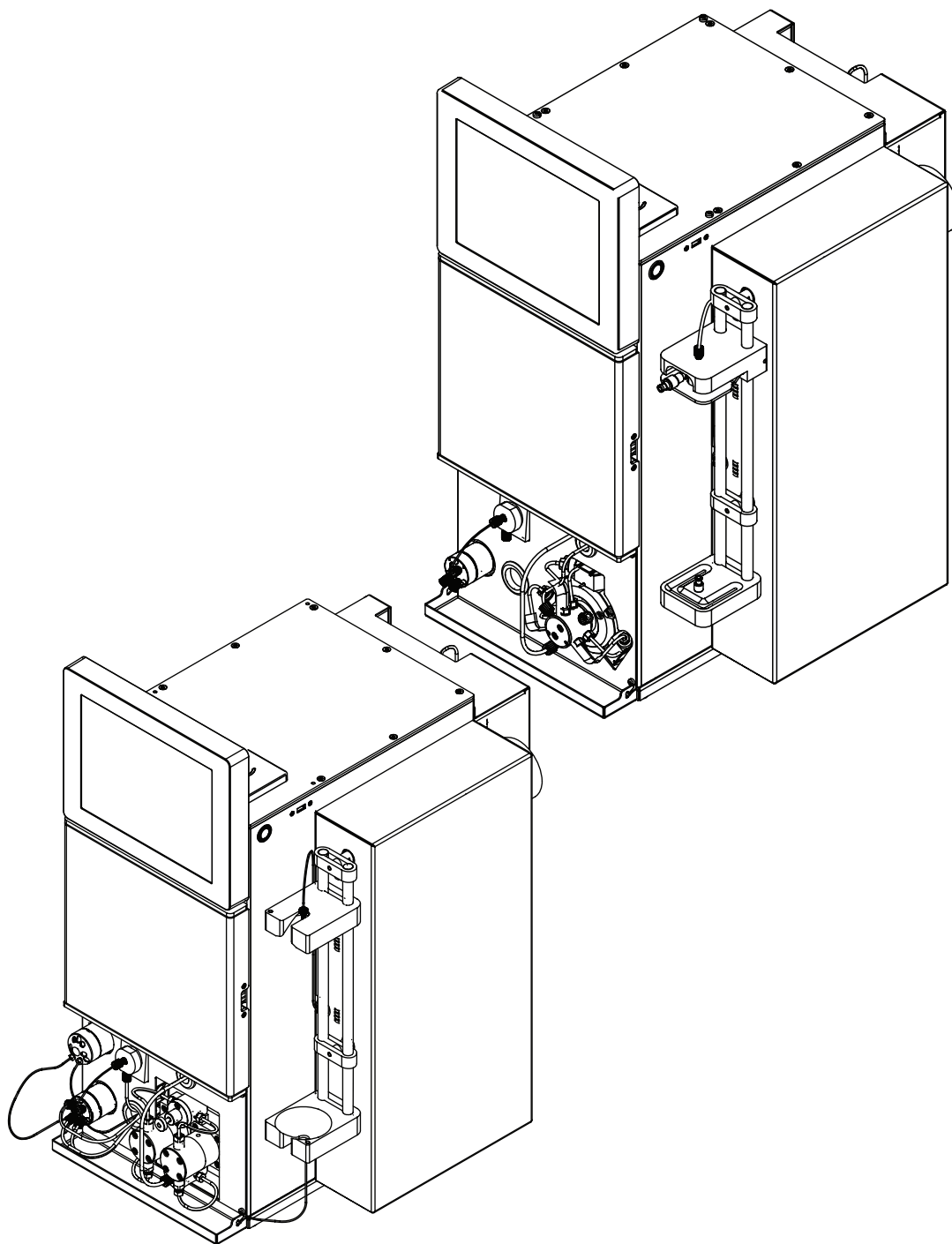




Pure Chromatography Instruments

Technical data sheet

The Pure chromatography instruments are extremely compact, ensure safety on the highest level and are easy to use for any application. With the platform it's possible to combine different techniques without sacrificing features or functionalities: Flash & prep HPLC and UV & ELS detection. This gives the chemist highest flexibility and helps to achieve the best purification results.



Scope of delivery

All configurations are supplied ready to use.

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
Pure C-810 Flash	1	-	-	-	-
Pure C-815 Flash	-	1	-	-	-
Pure C-830 Prep	-	-	1	-	-
Pure C-835 Prep	-	-	-	1	-
Pure C-850 FlashPrep	-	-	-	-	1
Power cord	1	1	1	1	1
Solvent line kit	1	1	1	1	1
Solvent bottle cap GL-45	5	5	5	5	5
Solvent cap UNF14	5	5	5	5	5
Operation manual	1	1	1	1	1
Tool kit flash	1	1	-	-	1
Tool kit prep	-	-	1	1	1
Pure cartridge holder	1	1	-	-	1
Pure column holder	-	-	1	1	1
Sample loop 5ml (5/16-24, OD1/8")	-	-	1	1	1
Cartridge bypass	1	1	-	-	1
Exhaust tubing ELSD	-	1	-	1	1
Pure air filter	1	1	1	1	1

Order code

Choose the configuration according to your needs:

1 1 C 8 0 0

Configuration

- 10 Pure C-810 Flash
- 15 Pure C-815 Flash
- 30 Pure C-830 Prep
- 35 Pure C-835 Prep
- 50 Pure C-850 FlashPrep

Technical data

Pure Chromatography Instruments

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
Dimension (W x D x H)	365 x 570 x 680 mm	365 x 570 x 680 mm	365 x 570 x 680 mm	365 x 570 x 680 mm	365 x 570 x 680 mm
Weight	25 kg	27 kg	31 kg	33 kg	33 kg
Power consumption	350 W	350 W	350 W	350 W	350 W
Connection voltage	100 - 240 V ± 10 %	100 - 240 V ± 10 %	100 - 240 V ± 10 %	100 - 240 V ± 10 %	100 - 240 V ± 10 %
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Fuse	4 A	4 A	4 A	4 A	4 A
Overvoltage category	II	II	II	II	II
IP Code	IP 20	IP 20	IP 20	IP 20	IP 20
Solvents	4	4	4	4	4
Gas pressure (maximum)	8 bar	8 bar	8 bar	8 bar	8 bar
USB port	3	3	3	3	3
LAN port (RJ45)	1	1	1	1	1
RFID reader (racks)	Yes	Yes	Yes	Yes	Yes
RFID reader (cartridges)	Yes	Yes	No	No	Yes
Fraction collector bay	closed	closed	closed	closed	closed
Lighted fraction collector bay	Yes	Yes	Yes	Yes	Yes
Solvent level sensor	Yes	Yes	Yes	Yes	Yes
Waste level sensor	Yes	Yes	Yes	Yes	Yes
Vapor sensor	Yes	Yes	Yes	Yes	Yes

Pump Flash Mode

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
Gradient	binary	binary	-	-	binary
Pressure range	0 - 50 bar	0 - 50 bar	-	-	0 - 50 bar
Flow rate	0 - 250 mL/min	0 - 250 mL/min	-	-	0 - 250 mL/min
Flow rate accuracy at 5 - 250 mL/min	< 2 %	< 2 %	-	-	< 2 %
Functional principle	self-priming	self-priming	-	-	self-priming
Specification	3 pistons radial arranged	3 pistons radial arranged	-	-	2 pistons parallel arranged

Pump Prep Mode

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
Gradient	-	-	binary	binary	binary
Pressure range	-	-	0-300 bar	0-300 bar	0-300 bar
Flow rate	-	-	0 - 100 ml/min	0 - 100 ml/min	0 - 100 ml/min
Flow rate accuracy	-	-	< 2 %	< 2 %	< 2 %
Functional principle	-	-	self-priming	self-priming	self-priming
Specification	-	-	2 pistons parallel arranged	2 pistons parallel arranged	2 pistons parallel arranged

UV Detector

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
UV wavelength range	200 - 400 nm	200 - 400 nm	200 - 800 nm	200 - 800 nm	200 - 800 nm
Light sources	Deuterium	Deuterium	Halogen / Deuterium	Halogen / Deuterium	Halogen / Deuterium
Detector	DAD	DAD	DAD	DAD	DAD
DAD scan	entire range	entire range	entire range	entire range	entire range

ELSD Detector

	Pure C-810	Pure C-815	Pure C-830	Pure C-835	Pure C-850
Light output laser	-	0.3 mW	-	1 mW	1 mW
Pressure carrier air	-	~0.8 bar	-	~0.8 bar	~0.8 bar
Pressure spray air	-	3 - 3.5 bar	-	3 - 3.5 bar	3 - 3.5 bar
Flow rate air	-	2 - 2.5 L/min	-	2 - 2.5 L/min	2 - 2.5 L/min

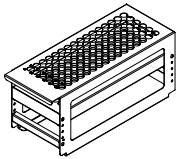
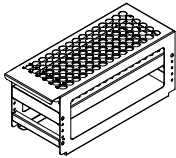
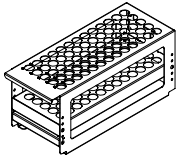
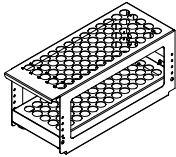
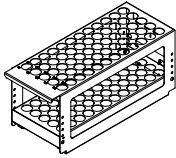
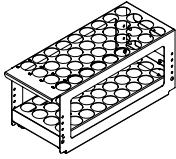
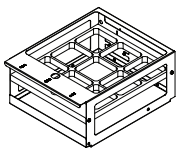
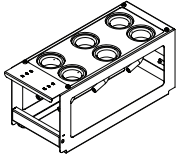
Ambient conditions

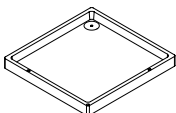
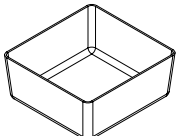
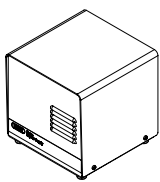
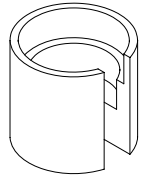
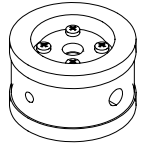
For indoor use only.

Max. altitude above sea level	2000 m
Ambient temperature	5–40°C (25°C) No maximum performance above 25°C
Maximum relative humidity	80% for temperatures up to 31°C
Storage temperature	max. 45 °C

Spare parts and accessories

Accessories

	Order no.	Image
Pure rack type 1 Rack for 12 x 75 mm glass tubes, 1 pc.	11066672	
Pure rack type 2 Rack for 13 x 100 mm glass tubes, 1 pc.	11066673	
Pure rack type 3 Rack for 16 x 125 mm glass tubes, 1 pc.	11066674	
Pure rack type 4 Rack for 16 x 150 mm glass tubes, 1 pc.	11066675	
Pure rack type 5 Rack for 18 x 150 mm glass tubes, 1 pc.	11066676	
Pure rack type 6 Rack for 25 x 150 mm glass tubes, 1 pc.	11066677	
Pure rack type 7 Rack for 9 squared bottles of 480 mL, 1 pc.	11068452	
Pure rack type 8 (funnel rack) Rack for 6 funnels	11068453	

	Order no.	Image
Solvent bottle platform kit Solvent bottle platform on top of the instrument. For maximum 4 bottles (volume 4 L each)	11069285	
Retaining container Retaining container for solvent bottle platform for more safety regarding leaking	11068468	
Pure Dry Air Supply unit	11069026	
Pure sampling pump with flow rates from 0.1 - 100 ml/min; back pressure regulator, tubing and fittings	145176861	
Pure cartridge holder XL Cartridge holder for cartridges of 800 g to 3000 g	11068388	
Pure column holder XL Column holder for column diameters 50 to 70 mm	11068467	
Pure UV flow cell 0.3 mm For all C-8xx	11068210	

Tubes

	Order no.
Pure Glass Tubes 13 x 100 mm 1000 pcs.	148623414
Pure Glass Tubes 16 x 150 mm 1000 pcs.	148623416
Pure Glass Tubes 18 x 150 mm 500 pcs.	148623410
Pure Glass Tubes 25 x 150 mm 500 pcs.	148623411

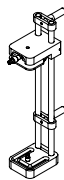
Tools and adapter kits

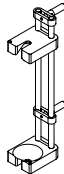
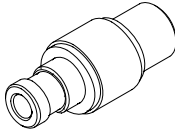
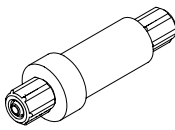
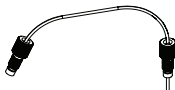
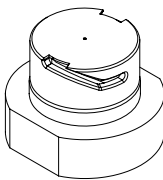
	Order no.
Luer lock connection set	11068242
Set of 2 luer lock adapters	
Advanced adapter kit flash	11068361
Tube cutter, Fittings (1/8", 1/16"), Tubing (pneumatic, FEP 1/8", FEP 1/16"), Luer Lock adapters, Pneumatic reduction, Fuses, Injection valve	
Advanced adapter kit prep	11068362
Wrenches, Fittings (1/8", 1/16"), One piece fitting, 1/16", Tubing (pneumatic, FEP 1/8", PEEK 1/16"), SS nut and ferrule, Reductions, Fuses	
Advanced adapter kit flash/prep	11068363
Tube cutter, Wrenches, Fittings (1/8", 1/16"), One piece fitting, 1/16", Tubing (pneumatic, FEP 1/8", FEP PEEK 1/16"), SS nut and ferrule, Reductions, Luer Lock adapters, Fuses, Injection valve	
Pure sampling valve kit	11068229
ELSD shuttle valve kit incl. stator and rotor	
Pure solvent line kit	11068215
Package with 4 lines	

Sample introduction accessories

	Order no.
Pure Solid loader 15 g set, incl. adapter set, sleeve, tubes (20 pcs.) and frits (40 pcs.)	11068975
Pure Solid loader 40 g set, incl. adapter set, sleeve, tubes (20 pcs.) and frits (40 pcs.)	11068976
Pure Solid loader frits 15 g (40 pcs.)	11068969
Pure Solid loader frits 40 g (40 pcs.)	11068970
Pure Solid loader tubes 15 g (20 pcs.)	11068971
Pure Solid loader tubes 40 g (20 pcs.)	11068972
Pure Solid loader insertion rod 15 g (1 pc.)	11068973
Pure Solid loader insertion rod 40 g (1 pc.)	11068974
Pure sample loop 2 ml, 1 pc.	11068476
Pure sample loop 5 ml, 1 pc.	11068205
Pure sample loop 10 ml, 1 pc.	11068206

Spare parts

	Order no.	Image
Pure cartridge holder	11065940	
Cartridge holder for cartridges for 4 g to 330 g		

	Order no.	Image
Pure column holder Column holder for columns diameters 10mm to 50mm	11066594	
Injection valve UNF 1/4"-28	044867	
Pure air filter	11066049	
Pure transfer line ELSD	11069409	
Touch-screen stylus	11068360	
Pure nebulizer set	11069464	
O-Ring for Pure nebulizer	11066421	