

Technical data sheet

Pure Excellence Chromatography Systems

The Pure Excellence Chromatography systems offer a range of solutions for purifying complex samples. The four different instrument types include options for Flash and Prep chromatography, as well as UV and ELS detection. The intuitive interface guides you through the operating process, ensuring straightforward operation.



Scope of delivery

All configurations are supplied ready to use.



NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

	C-905	C-910	C-915	C-950
Power cord, country-specific	1	1	1	1
Solvent line kit	1	1	1	1
Injection kit	1	1	1	2
Line kit stainless steel for Prep columns	-	-	-	1
Sample loop for Flash 2 mL	1	1	1	1
Sample loop for Prep 2 mL	-	-	-	1
Fraction collector exhaust hose, 25 mm/1.5 m	1	1	1	1
ELSD exhaust hose, 1.5 m	-	-	1	1
Magnetic holder	-	-	-	1
Magnetic tubing hook	1	1	1	1
Solvent filter	4	4	4	4
Operation manual	1	1	1	1
EC Declaration of conformity	1	1	1	1

Order code

Choose the configuration according to your needs:

1 1 C 9 0 0

Pure Excellence Chromatography Systems

- 05 Pure Excellence C-905, Flash (four preset UV wavelengths)
- 10 Pure Excellence C-910, Flash (DAD UV-Vis)
- 15 Pure Excellence C-915, Flash (DAD UV-Vis, ELSD)
- 50 Pure Excellence C-950, Flash/Prep (DAD UV-Vis, ELSD)

Technical data

Pure Excellence Chromatography Systems

Specification	C-905	C-910	C-915	C-950
Dimensions (W × D × H)	330 × 470 × 705 mm	330 × 470 × 705 mm	330 × 470 × 705 mm	330 × 470 × 705 mm
Weight	38 kg	40 kg	44 kg	48 kg
Power consumption	150 W	200 W	200 W	350 W
Connection voltage	100–240 VAC ± 10%	100–240 VAC ± 10%	100–240 VAC ± 10%	100–240 VAC ± 10%
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Fuse	T: 3.15 A H: 250 V	T: 4 A H: 250 V	T: 4 A H: 250 V	T: 6.3 A H: 250 V
Overvoltage category	II	II	II	II
Pollution degree	2	2	2	2
Min. clearance on all sides	200 mm	200 mm	200 mm	200 mm
User interface	15.6" capacitive touch screen, solvent resistant	15.6" capacitive touch screen, solvent resistant	15.6" capacitive touch screen, solvent resistant	15.6" capacitive touch screen, solvent resistant
Connections	2 × BUCHI BUS External devices connections (e.g. syringe pump) 2 × analog detector connections 7 × USB ports 1 × LAN port (RJ45)	2 × BUCHI BUS External devices connections (e.g. syringe pump) 2 × analog detector connections 7 × USB ports 1 × LAN port (RJ45)	2 × BUCHI BUS External devices connections (e.g. syringe pump) 2 × analog detector connections 7 × USB ports 1 × LAN port (RJ45)	2 × BUCHI BUS External devices connections (e.g. syringe pump) 2 × analog detector connections 7 × USB ports 1 × LAN port (RJ45)
Certification	CE, UL/CSA	CE, UL/CSA	CE, UL/CSA	CE, UL/CSA

Pump

Specification	C-905	C-910	C-915	C-950
Type	Flash, 3 pistons arranged radially	Flash, 3 pistons arranged radially	Flash, 3 pistons arranged radially	Flash/Prep, 3 pistons arranged radially
Pressure limit	50 bar	50 bar	50 bar	Flash: 50 bar Prep: 400 bar
Max. operational flow rate	300 mL/min	300 mL/min	300 mL/min	Flash: 300 mL/min Prep: 150 mL/min
Flow rate accuracy	±1 mL at < 50 mL/min ± 2% at > 50 mL/min	±1 mL at < 50 mL/min ± 2% at > 50 mL/min	±1 mL at < 50 mL/min ± 2% at > 50 mL/min	±1 mL at < 50 mL/min ± 2% at > 50 mL/min
Flow rate reproducibility	less than ±1% across entire flow rate range	less than ±1% across entire flow rate range	less than ±1% across entire flow rate range	less than ±1% across entire flow rate range
Gradient	Isocratic, linear, step, gradient (binary to quaternary)	Isocratic, linear, step, gradient (binary to quaternary)	Isocratic, linear, step, gradient (binary to quaternary)	Isocratic, linear, step, gradient (binary to quaternary)
Gradient accuracy	less than ±1% across entire flow rate range (binary gradient)	less than ±1% across entire flow rate range (binary gradient)	less than ±1% across entire flow rate range (binary gradient)	less than ±1% across entire flow rate range (binary gradient)
Solvent lines	4	4	4	4

UV detector

Specification	C-905	C-910	C-915	C-950
Technology	4 fixed wavelengths 254 nm, 275 nm 325 nm, 365 nm	DAD	DAD	DAD
UV Vis-range	-	200–800 nm	200–800 nm	200–800 nm
DAD scan	-	Entire range, 3D live	Entire range, 3D live	Entire range, 3D live
Light sources	LED	Halogen/Deuterium	Halogen/Deuterium	Halogen/Deuterium
Lamp lifetime	min. 2,000 h	4,000/2,000 h	4,000/2,000 h	4,000/2,000 h
Flow cell path	0.3 mm	0.1 mm	0.1 mm	0.1 mm

ELS detector

Specification	C-905	C-910	C-915	C-950
Integration	-	Upgradeable	Integrated	Integrated
Technology	-	-	Nano-pulse injection	Nano-pulse injection
Sample loss	-	-	30 µL/min	30 µL/min
Light output laser	-	-	1 mW	1 mW
Pressure spray air	-	-	2.5–3.5 bar	2.5–3.5 bar
Air pressure (purge)	3.5–8 bar	3.5–8 bar	3.5–8 bar	3.5–8 bar
Air quality	Standard (dry, oil- and dust-free air)	Standard (dry, oil- and dust-free air)	Standard (dry, oil- and dust-free air)	Standard (dry, oil- and dust-free air)

Fraction collector

Specification	C-9XX
Illuminated fraction collector bay	Standard; on/off function
Unique RFID reader for racks	Standard
Rack capacity	max. 2
Rack types	All racks with dimensions: max. length 320 mm max. width 113 mm
Max. collection capacity	Unlimited with funnel rack; 3.75 L with 18 x 150 mm rack
Max. number of fractions	150 with no rack exchange (18 x 150 mm racks)

Injection mode

Specification	C-905	C-910	C-915	C-950
Available modes	Liquid or solid	Liquid or solid	Liquid or solid	Liquid or solid
Liquid injection	Automatic via the sample injection valve and loop	Automatic via the sample injection valve and loop	Automatic via the sample injection valve and loop	Flash: automatic via the sample injection valve and loop Prep: automatic via the sample injection valve and loop (high pressure solvent path)
Solid loading	Connected to the automatic injection valve	Connected to the automatic injection valve	Connected to the automatic injection valve	Connected to the automatic injection valve (Flash only)

Flash cartridge sizes

Specification	C-9XX
Integrated cartridge holder	up to 330 g
Optional external cartridge support	up to 5 kg

Prep-HPLC column sizes

Specification	C-905	C-910	C-915	C-950
On instrument	-	-	-	up to 30 mm ID
External column support	-	-	-	up to 70 mm ID

Safety

Specification	C-9XX
Pressure sensor	Standard
Internal vapor sensor	Standard
Active solvent and waste level monitoring	Standard
Cartridge holder with integrated drainage system	Standard
Cartridge holder with release mechanism and safety brake	Standard
Fume enclosure with active ventilation	Standard
Leakage control in fraction collector bay	Standard
Solvent bottle platform	Optional

Ambient conditions

For indoor use only.

Specification	Value
Max. altitude above sea level	2,000 m
Ambient and storage temperature	5–40 °C
Max. relative humidity	80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40 °C

Spare parts and accessories

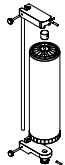

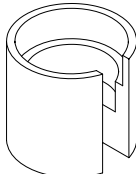
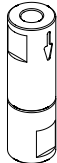
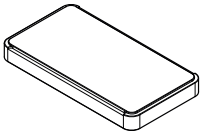
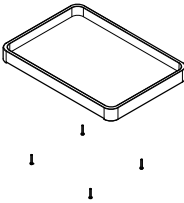
Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.

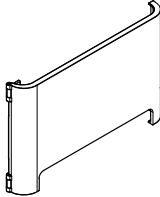
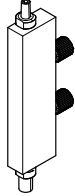
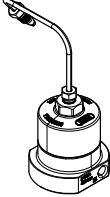
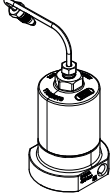
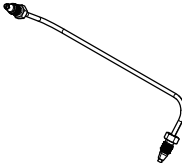
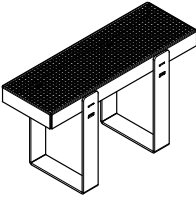
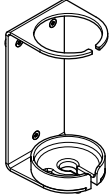
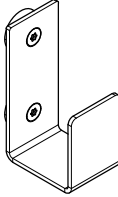


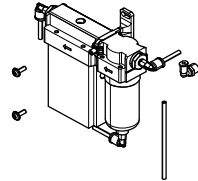
NOTE

Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

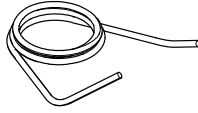
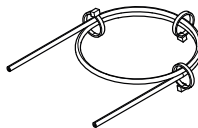
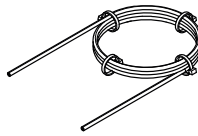
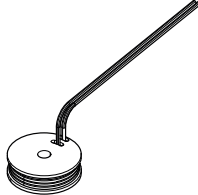
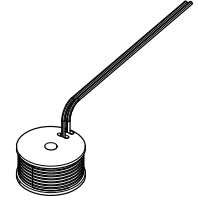
Accessories

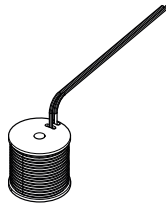

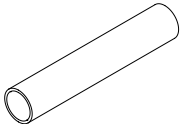
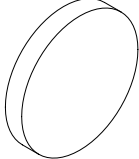
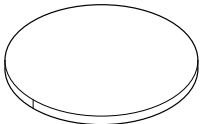
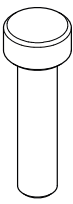
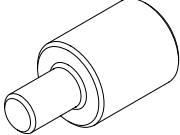
	Order no.	Image
Cartridge holder Connects and supports Flash cartridges up to 5 kg	11065862	
V-Stand with rod Supports cartridge holders for large Flash cartridges	11069158	
Large Prep-HPLC column holder Supports large Prep-HPLC columns up to 50 mm ID	11068467	
Inline solvent filter Prevents potential contaminants from entering the sensitive parts of the system	11059070	
Flow cell for UV-Vis detector 1 mm	11064149	
Flow cell for UV-Vis detector 2 mm	11064150	
Solvent bottle platform for two bottles (4 L each)	11080911	
Solvent bottle platform for four bottles (4 L each)	11082687	
Connection set for the sample injection valve	11086768	

	Order no.	Image
Fraction collector door for funnel rack Special door for easy routing of solvent lines outside the fraction collector bay	11075388	
Bypass for external cartridge/glass column setup	11080910	
Internal mixing chamber, 13 mL Used for flow rates of 80 to 180 mL/min	11080871	
Internal mixing chamber, 22 mL Used for flow rates of 130 to 300 mL/min	11080872	
Direct flow path in case no mixing chamber	11074907	
Dishwasher basket Keeps racks and vials together throughout washing and drying process	11080916	
Magnetic holder Securely holds Prep-HPLC columns, solid loaders and sample coils	11076346	
Magnetic tubing hook Organizes solvent tubing or holds small columns (up to 20 mm ID)	11079798	
Prep column connectors, 2 pcs.	11080873	

	Order no.	Image
Solvent line kit Incl. solvent and waste lines, level sensor lines, bottle caps and connectors	11080880	
Solvent bottle cap set, 5 pcs.	11084168	
Drying unit for external gas sources Purifies supplied air by removing oil, moisture and dust	11082688	
Dry air supply unit Integrated air supply for purging and sample transport in ELSD	11084381	

Sample introduction accessories

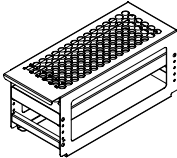
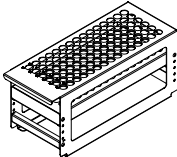
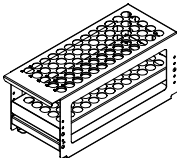
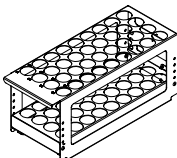
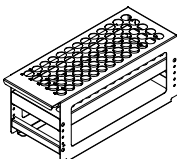
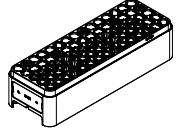
	Order no.	Image
Stainless steel sample loop for Prep 2 mL	11068476	
Stainless steel sample loop for Prep 5 mL	11068205	
Stainless steel sample loop for Prep 10 mL	11068206	
Stainless steel sample loop for Prep 20 mL	11069768	
Sample loop for Flash 1 mL	11080867	
Sample loop for Flash 2 mL	11080868	
Sample coil for Flash 5 mL	11081812	
Sample coil for Flash 10 mL	11081816	

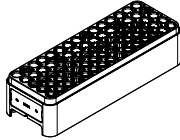
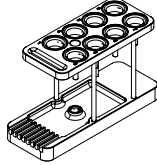
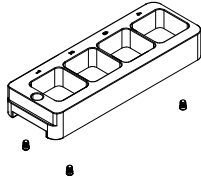
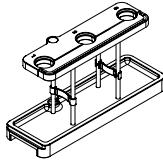
	Order no.	Image
Sample coil for Flash 20 mL	11081815	
Pure Solid Loader S set Incl. tubes (20 pcs.) and frits (40 pcs.), for max. 15 g sample and silica	11068975	
Pure Solid Loader M set Incl. tubes (20 pcs.) and frits (40 pcs.), for max. 40 g sample and silica	11070505	
Pure Solid Loader tubes S, 20 pcs.	11068971	
Pure Solid Loader tubes M, 20 pcs.	11068972	
Pure Solid Loader frits S, 40 pcs.	11068969	
Pure Solid Loader frits M, 40 pcs.	11068970	
Pure Solid Loader insertion rod S, 1 pc.	11068973	
Pure Solid Loader insertion rod M, 1 pc.	11068974	
Inject-T-piece For direct injection on the cartridge	11080874	
Injection set for SIV Flash No need to keep the syringe in the injection port	11080875	

Tubing

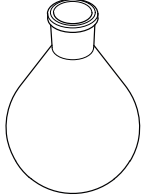
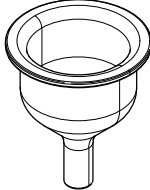
	Order no.
Tubing FEP oØ 3.2 mm, iØ 1.6 mm (length on demand)	042908
Tubing FEP oØ 3.2 mm, iØ 1.6 mm, L = 1,800 mm	11068176
Tubing FEP oØ 3.2 mm, iØ 1.6 mm, L = 1,100 mm	11081851
Tubing FEP oØ 4.78 mm, iØ 3.18 mm (length on demand)	11081362

Racks

	Order no.	Image
Stainless steel rack, for 96 tubes (12 x 75 mm, 5 mL)	11066672	
Stainless steel rack, for 90 tubes (13 x 100 mm, 8.5 mL)	11066673	
Stainless steel rack, for 65 tubes (16 x 125 mm, 15 mL)	11066674	
Stainless steel rack, for 36 tubes (25 x 150 mm, 50 mL)	11066677	
Stainless steel rack, for 65 tubes (16 x 100 mm, 14 mL)	11069242	
Rack for 75 tubes (18 x 150 mm, 25 mL)	11074055	

	Order no.	Image
Rack for 75 tubes (16 x 150 mm, 20 mL)	11074056	
Funnel rack Incl. eight funnels, one waste vial and eight silicone tubings (2 m long)	11074402	
Jar rack For four square bottles of 480 mL (not included)	11074894	
Rack for evaporation flasks For three evaporation flasks, max. 29.2/32, 500 mL (not included)	11074484	

Tubes and bottles

	Order no.	Image
Square bottles 480 mL, 24 pcs.	148623412	
Evaporating flask Glass, SJ 29.2/32, 500 mL	000434	
Replacement glass funnel set, 8 pcs.	11074939	
Glass tubes 13 x 100 mm, 1,000 pcs.	148623414	
Glass tubes 16 x 150 mm, 1,000 pcs.	148623416	
Glass tubes 18 x 150 mm, 500 pcs.	148623410	
Glass tubes 25 x 150 mm, 500 pcs.	148623411	

Adapter kits

	Order no.
Luer lock connection set	11068242
Adapter 1/4-28 UNF female to 5/16-24 male To install the ISCO RediSep Rf solid loader	11073952
Adapter set for ISCO solid loader	11084334
Adapter set for Biotage solid loader	11084335

IQs/OQs and repeating OQs

All IQs/OQs and repeating OQs are supplied with the required material (cartridge, test mix tubes and OQ Prep test mix).

	Order no.
IQ/OQ set C-905 en	11084290
Repeating OQ set C-905 en	11084291
IQ/OQ set C-910 en	11084292
Repeating OQ set C-910 en	11084293
IQ/OQ set C-915 en	11084294
Repeating OQ set C-915 en	11084295
IQ/OQ set C-950 en	11084296
Repeating OQ set C-950 en	11084297

Maintenance kits


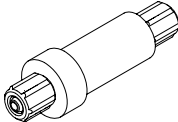
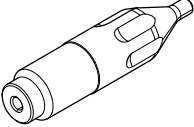
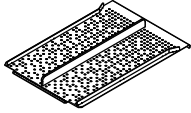
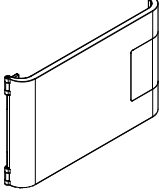
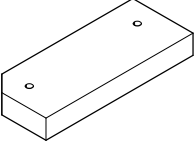
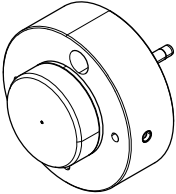
	Order no.
Preventive maintenance kit for Pure Excellence C-905, C-910 and C-915	11084844
Preventive maintenance kit for Pure Excellence C-950	11084845
Preventive maintenance kit for Pure Excellence C-950 pump HP	11084938

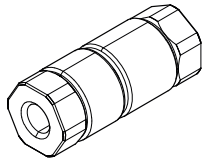
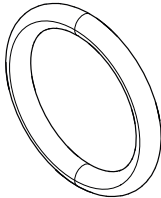
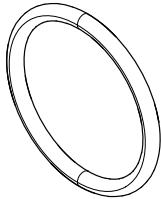

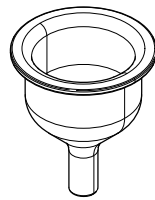
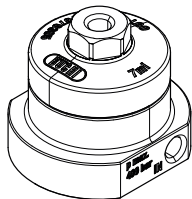
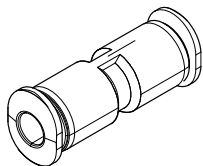
Instrument upgrade kits

Can only be performed by a service technician.

	Order no.
UV-Upgrade kit (C-905 to C-910)	11081943
ELSD-Upgrade kit (C-910 to C-915)	11081944

Spare parts

	Order no.	Image
Rubber foot replacement, 4 pcs.	11075564	
Pure air filter	11066049	
Screw-in fitting for Flash SIV	11082353	
Fraction collector nozzle	11071980	
Fraction collector baseplate replacement	11072085	
Fraction collector door	11075672	
Flow cell for UV-Vis detector 0.1 mm	11057949	
Flow cell for UV detector fixed wavelengths, 0.3 mm	11073975	
One-piece fitting 1/8", 2 pcs.	11074308	
ELSD nebulizer replacement	11085078	
Solvent filter set, 2 pcs. Includes 2 filters, steel frits and connectors	11080175	
Injection kit Incl. luer adapter, fitting and overflow tubing	11080883	

	Order no.	Image
Stainless steel tubing kit for Prep-HPLC columns	11080884	
Back pressure regulator, 2 bar	11083898	
O-ring for Pure Solid Loader S	11067621	
O-ring for Pure Solid Loader M	11085404	
Check valve	11072191	
O-ring ELSD set	11085530	
Replacement glass funnel set, 8 pcs.	11074939	
Internal mixing chamber, 7 mL For flow rates of 30–100 mL/min	11076305	
Plug-in connector	11066874	
Frits for the solvent filter, 4 pcs.	11084474	
Frits for the solvent filter, 10 pcs.	11084475	



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