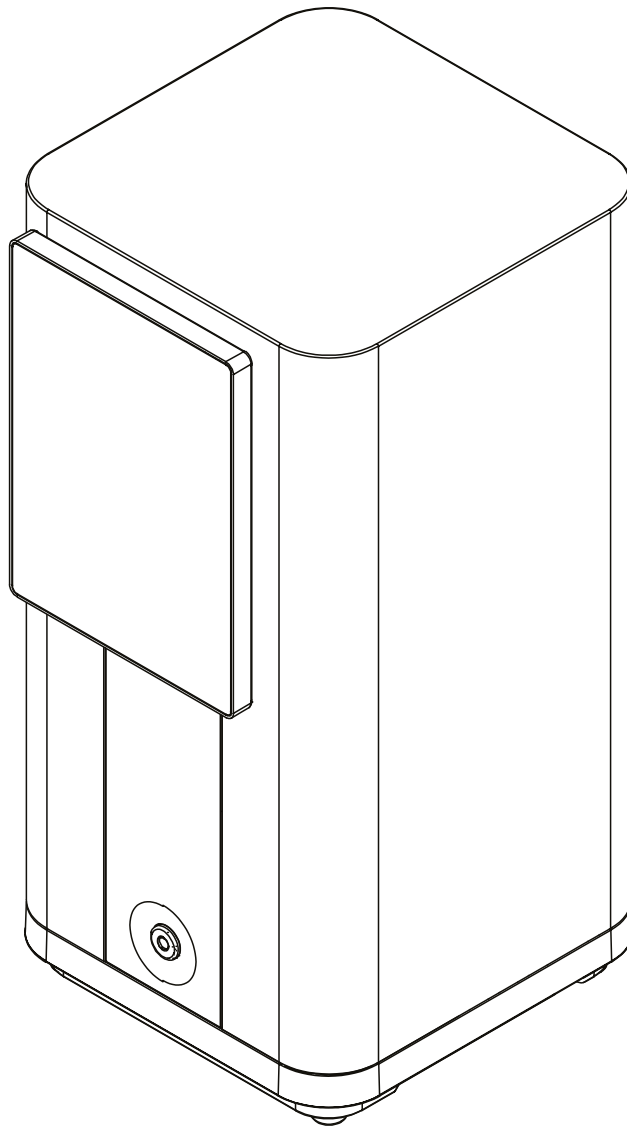# Pure Chromatography C–900
Technical data sheet

The Pure Chromatography C-900 three-piston pump module pumps solvent during a flash chromatography process. The integrated interface guides you through the operating process and allows you to make adjustments easily.

Scope of delivery

All configurations are supplied ready to use.

ℹ️	**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.

Component	Pure Chromatography C-900
Pure Chromatography C-900 (pump tower)	1
Power cord	1
Solvent line pressure side kit	1
Fitting kit (one-piece fitting 1/8'')	2
Pure Essential software	1
Operation manual	1

Order code

Choose the configuration according to your needs:

| 1 | 1 | C | 9 | 0 | 0 | 0 | 0 | Pure Chromatography C-900 |

| 1 | 1 | C | 9 | 0 | 0 | 1 | 0 | Pure Essential Chromatography System (Pure Chromatography C-900 + Pure UV Detector + Pure Fraction Collector) |

| 1 | 1 | C | 9 | 0 | 0 | 2 | 0 | Pure Chromatography C-900 with Pure Fraction Collector |

| 1 | 1 | C | 9 | 0 | 0 | 3 | 0 | Pure Chromatography C-900 with Pure UV Detector |

Technical data

Pure Chromatography C-900

Specification	Value
Dimensions (W x D x H)	200 x 200 x 410 mm
Weight	10 kg
Power consumption	90 W
Supply voltage	100 – 240 VAC ± 10%
Frequency	50/60 Hz
Fuse	2 A
Overvoltage category	II
Pollution degree	2
IP code	20
Solvents	2
Gradient	Binary
Max. operating pressure	50 bar
Pump	Flash, 3-piston, pulsation-free, self-priming
Flow rate	0 – 300 mL/min
Flow rate reproducibility	± 1% at 5 – 250 mL/min
Gradient accuracy	± 1%
Hose connections	1 UNF 1/4"-28 2 UNF 5/16"-24
Safety sensor	Pressure
Sample injection	Liquid (manual) or solid loading
Cartridge installation	4 – 330 g at instrument > 330 g external
Separation	Gravity and anti-gravity flow
Modularity	Yes
Interfaces	2 BUCHI standard communication ports (COM) 2 USB ports 1 Ethernet port
Screen	7" touch screen
Software languages	12 languages (en, de, fr, es, it, pt, ru, zh, ja, ko, id, th)
Wifi	Yes
Export/Import	Data/Run/Method by USB stick

Ambient conditions

For indoor use only.

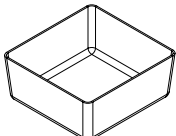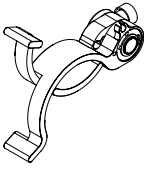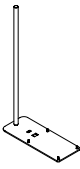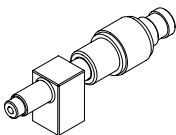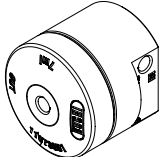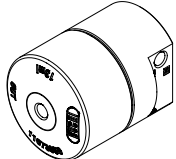| Specification	Value
Max. altitude above sea level	2,000 m
Ambient and storage temperature	5 – 40 °C
Max. relative humidity	80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40 °C

Spare parts and accessories

Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.
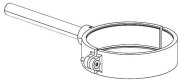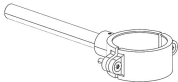
> **NOTE**
>
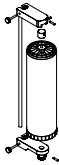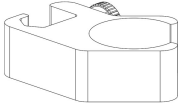> Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.
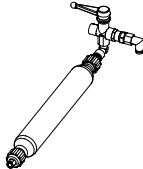
Accessories

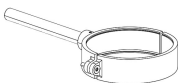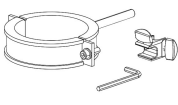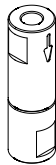|	Order no.	Image
Retaining container Retaining container for solvent bottle platform for more safety regarding leaking	11068468	
Pure Clamp for Pure Essential Cartridge Stand Universal cartridge holder	11074604	
Pure Essential Cartridge Stand For cartridges up to 330 g	11072733	
Injection valve UNF 1/4"-28 Incl. T-piece, for convenient injection of up to 5 ml sample	044850	
Injection unit 6-way valve for safe and fast sample loading	054284	
Pure Mixing Chamber, 2.5 ml volume For flow rates of 10 - 35 ml/min	11073940	
Pure Mixing Chamber, 7 ml volume For flow rates of 30 - 100 ml/min	11073951	
Pure Mixing Chamber, 13 ml volume For flow rates of 80 - 180 ml/min	11073950	

	Order no.	Image
Pure Mixing Chamber, 22 ml volume For flow rates of 130 - 300 ml/min	11075390	
Cartridge holder for the V-Stand For 800 g and 1600 g cartridges	11058737	
Cartridge holder XL for the V-Stand For 3000 g and 5000 g cartridges	11065862	
V-Stand with rod, 950 mm	11069158	
Pivoting clamp for GlasPure ID 15 mm (1 pc.)	044857	
Pivoting clamp for GlasPure ID 26 mm (1 pc.)	044858	
Pivoting clamp for GlasPure ID 36 mm (1 pc.)	044859	
Pivoting clamp for GlasPure ID 49 mm (1 pc.)	044860	
Pivoting clamp for GlasPure ID 70 mm (1 pc.)	044861	
Pivoting clamp for GlasPure ID 100 mm (1 pc.)	044862	

	Order no.	Image
Luer lock connection set	11058005	
Inline filter	11059070	

Sample introduction accessories

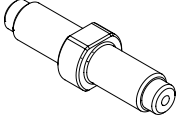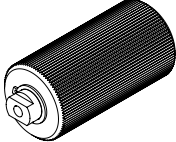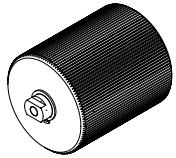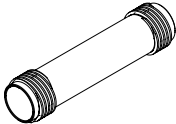|	Order no.	Image
Sample loop 5 ml For sample volumes of 1 - 5 ml, FEP coil	045222	
Sample loop 20 ml For sample volumes of 1 - 20 ml, FEP coil	044852	
Sample chamber 100 ml set Incl. all adapters needed for operation, for convenient injection of samples volumes between 10 - 100 ml	044853	
Sample chamber 250 ml 250 ml glass part for Sample chamber 100 ml set, for convenient injection of samples volumes up to 250 ml	054854	
Sample chamber 500 ml 500 ml glass part for Sample chamber 100 ml set, for convenient injection of samples volumes up to 500 ml	054859	
Sample chamber 1000 ml 1000 ml glass part for Sample chamber 100 ml set, for convenient injection of samples volumes up to 1000 ml	054864	
Pure Solid loader S set, incl. adapter set, sleeve, tubes (20 pcs.) and frits (40 pcs.)	11068975	
Pure Solid loader M set, incl. adapter set, sleeve, tubes (20 pcs.) and frits (40 pcs.)	11070505	

Spare parts

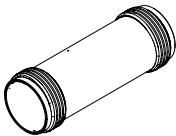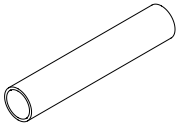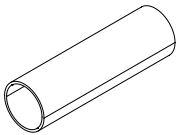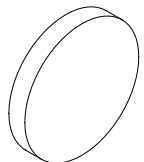|	Order no.	Image
Solvent line set Set with 2 solvent level lines, ferrule, fitting and adapters	11071873	
Back Pressure Regulator (BPR), 2 bar	044337	

	Order no.	Image
T piece UNF 1/4"-28	044866	
Injection valve UNF 1/4"-28	044867	
Fitting kit One-piece fitting 1/8''	11074308	
Set fitting 5/16'' with flat bottom 10 pcs.	11072074	
Set Rev 3/16'' ferrule 10 pcs.	11070507	
Set fitting and ferrule 1/8'' 10 pcs.	11072384	
Set fittings 3.2 mm (25 pcs.) Use for attaching the hoses to the 3-way tap and the waste vessel	040956	
Set ferrules 3.2 mm (green, 25 pcs.) Use with 04956 for attaching the hoses to the 3-way tap and the waste vessel	040961	
Exhaust hose Ø 25 mm, L = 2.5 m	11068204	
Hose PTFE Ø 4.8 x 2.5, L = 1800	11069932	
Hose ETFE Ø 3.18 x 1.59, L = 1.5 m	044343	
Communication cable. BUCHI COM, 0.9 m, 6p Enables connection between Rotavapor® R-300 / R-220 Pro, Interface I-300 / I-300 Pro, Vacuum Pump V-300 / V-600, Recirculating Chiller F-3xx, VacuBox and LegacyBox. Enables connection between Pure® Chromatography C-900, Fraction Collector, UV Detector.	11070540	
Bottle caps set (5 pcs. each)	11068203	
Pure solvent filter Pore size 40 - 100 µm	11080149	
Frit for Pure solvent filter Pore size 40 - 100 µm	11080140	
Set Disp. Gas Hoses	11079760	

	Order no.	Image
O-Ring Ø 37.00 x 1.50 NBR 70 5 pcs.	11079761	

Solid loader spare parts

	Order no.	Image
Male union UNF 1/4"-28	11068367	
Pure threaded connection S	11068977	
Pure threaded connection M	11069651	
Support tube S	11068979	
Support tube M	11069648	
Pure Solid loader tubes S (20 pcs.)	11068971	
Pure Solid loader tubes M (20 pcs.)	11069653	
Pure Solid loader frits S, 15 g (40 pcs.)	11068969	

	Order no.	Image
Pure Solid loader frits M (40 pcs.)	11069654	

Maintenance kits

	Order no.
Pure Chromatography C-900 Maintenance Kit	11075562
Contains all parts required for a regular and routine maintenance, recommended after 1 year of instrument use	
Pure Chromatography C-900 Extended Maintenance Kit	11075563
Contains all parts required for an extended maintenance, recommended after 4 years of instrument use	