

S 1130 HPLC PUMP SYSTEM

The **Sykam S 1130 HPLC Pump System** is a very flexible and powerful HPLC solvent delivery system. Its modular setup makes the **S 1130** one of the most versatile pump systems on the market. The possible configurations include a *Isocratic*, *Quaternary Gradient Pump*, or a *Binary High-Pressure Gradient Pump*.



■ One Pump — Three Configurations

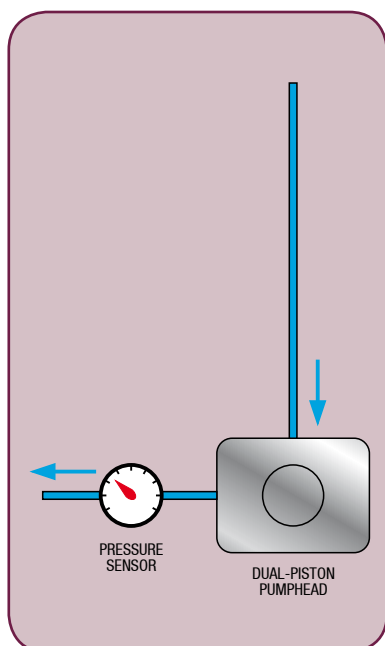


Figure: S 1130 Flowchart

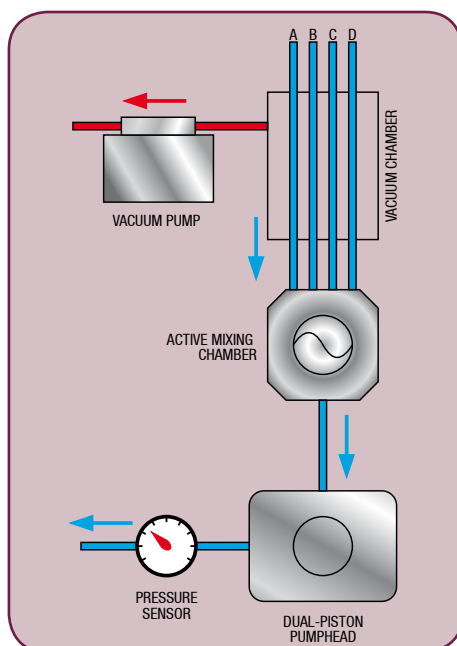


Figure: S 1130G Flowchart

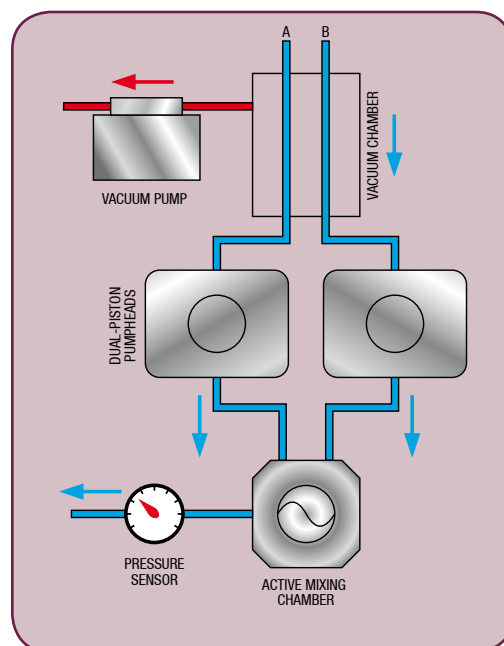
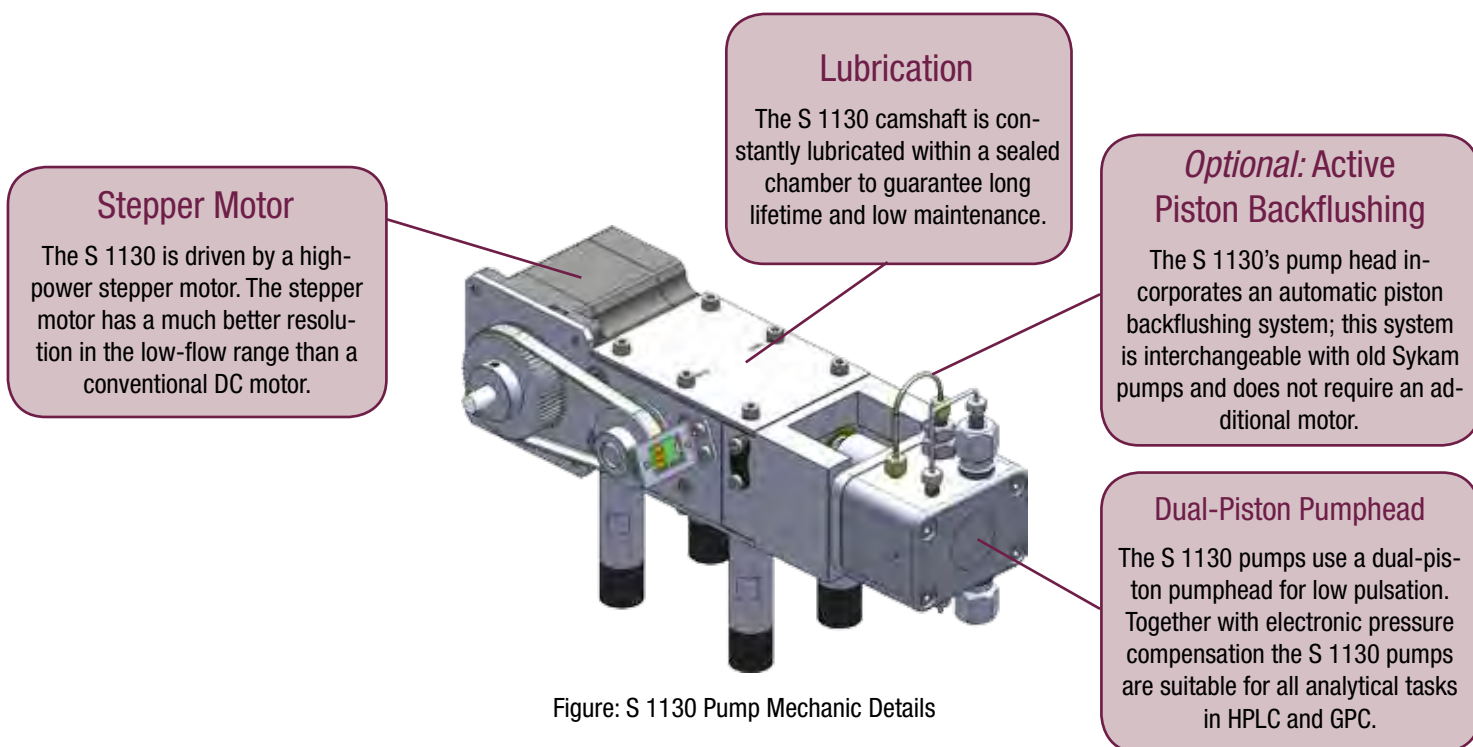


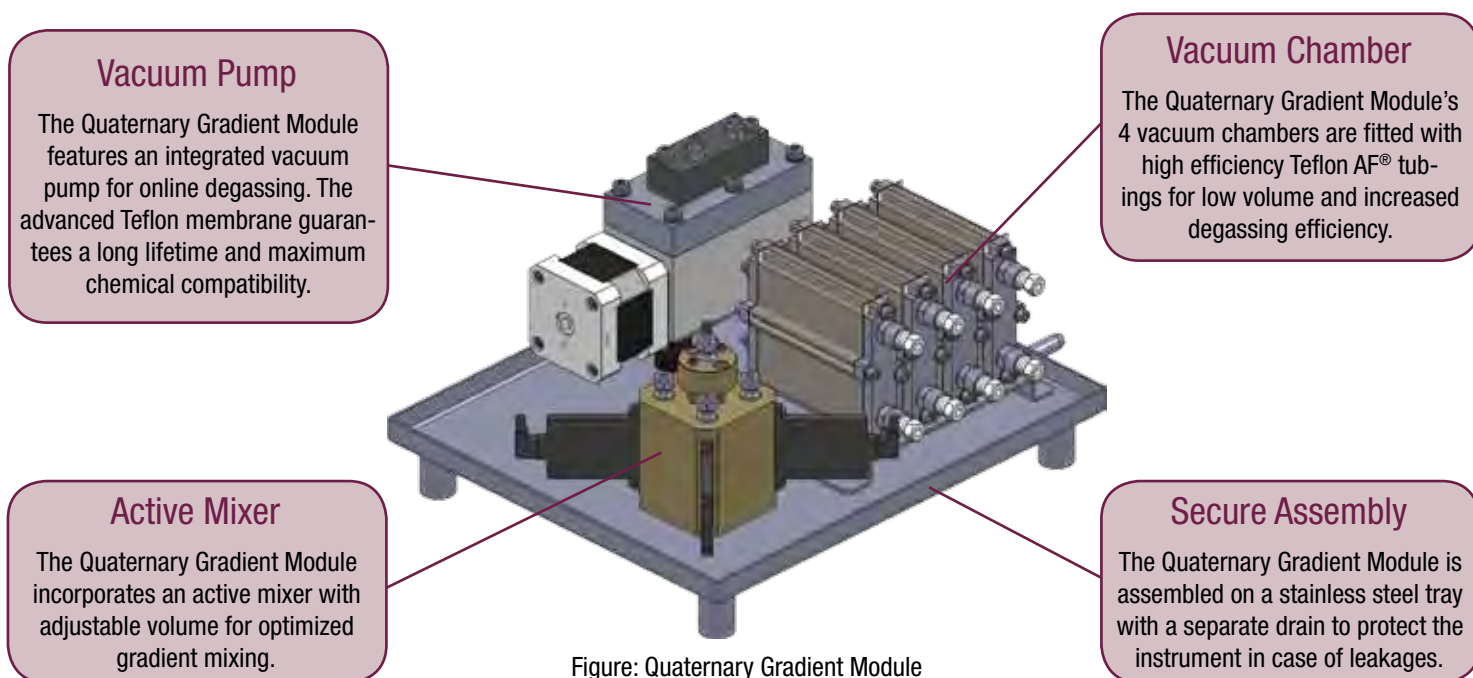
Figure: S 1132 Flowchart

■ S 1130 Pump Details

■ Pump Mechanic



■ Quaternary Gradient Module



■ S 1130 Configurations

■ S 1130 Isocratic HPLC Pump

The **S 1130 Isocratic HPLC Pump** is a robust, low-pulsation solvent delivery system. The pumphead is easily accessible from the front panel to make routine maintenance, like changing pump seals, easy and fast. The transparent front cover makes it easy for the operator to detect any leakages. The pump is available with Micro, Analytical or Semi-Preparative pumphead in Stainless Steel or PEEK.



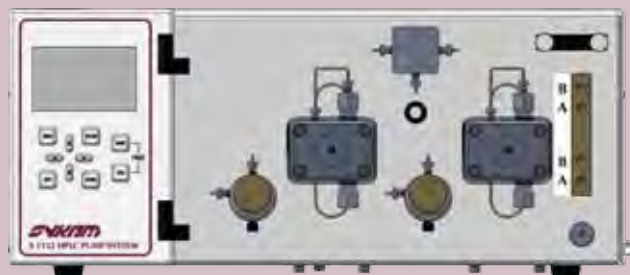
■ S 1130G Low-Pressure Quaternary Gradient Pump

The **S 1130G Quaternary Gradient Pump** incorporates an active low pressure mixer with adjustable mixing volume. The mixing chamber volume can be freely adjusted. An optional integrated vacuum degasser removes dissolved gases in the eluents and prevents air bubbles in the system. The system is available with Micro, Analytical or Semi-Preparative pumphead in Stainless Steel or PEEK.



■ S 1132 High-Pressure Binary Gradient Pump

The **S 1132 High-Pressure Binary Gradient Pump** incorporates two pump systems with active high pressure mixer with adjustable chamber volume. An optional integrated vacuum degasser removes dissolved gases in the eluents and prevents air bubbles in the system. The system is available with Micro, Analytical or Semi-Preparative pumpheads in Stainless Steel or PEEK.



■ Technical Specifications

Wetted Materials:	Stainless Steel / PEEK*, Teflon AF®, PVDF, Ceramics, Sapphire, Ruby
Flow Rate:	Programmable Micro: 0.001 - 4.000 ml/min Analytical: 0.001 - 10.000 ml/min Semi-Preparative: 0.1 - 40.000 ml/min
Flow Accuracy:	± 1.0 % 1.000 ml / min
Flow Precision:	± 0.1 % RSD 1.000 ml/min
Pressure Range:	0 - 40 MPa (0 - 6000 PSI) Semi-Preparative: 20 MPa (up to 20.000 ml/min); 10 MPa (up to 40.000 ml/min)
Pressure Pulsation:	typical < 0.1 MPa or < 1.0 %
Compressibility Compensation:	user-adjustable for different solvents
Dimensions: (W x H x D)	396 x 165 x 478 mm
Power Supply:	100 - 250 ~V (47 - 63 Hz)

* depending on configuration

■ S 1130G Quaternary Gradient Pump

Vacuum Degassing:	<i>optional:</i> < 20% dissolved gases remaining in water @ 1.000 ml/min
Gradient Range:	0.0 - 100.0 %, 4 channels
Gradient Accuracy:	< 0.50 %
Gradient Mixing:	Active
Mixer Volume:	adjustable: 10 - 500 µl

■ S 1132 Binary Gradient Pump

Vacuum Degassing:	<i>optional:</i> < 20% dissolved gases remaining in water @ 1.000 ml/min
Gradient Range:	0.0 - 100.0 %, 2 channels
Gradient Accuracy:	< 0.50 %
Gradient Mixing:	Active
Mixer Volume:	adjustable: 10 - 500 µl

■ Order Information

■ S 1130 Isocratic HPLC Pump

Catalog No	Description
10 10 078	S 1130 Isocratic HPLC Pump - Micro - SS
10 10 080	S 1130 Isocratic HPLC Pump - Micro - PEEK
10 10 077	S 1130 Isocratic HPLC Pump - Analytical - SS
10 10 079	S 1130 Isocratic HPLC Pump - Analytical - PEEK
10 10 120	S 1130 Isocratic HPLC Pump - Semi-Preparative - SS
10 10 121	S 1130 Isocratic HPLC Pump - Semi-Preparative - PEEK
20 20 061	<i>option:</i> Active Piston Backflushing

■ S 1130G Quaternary Gradient Pump

Catalog No	Description
10 10 082	S 1130G Quaternary Gradient Pump - Micro - SS
10 10 084	S 1130G Quaternary Gradient Pump - Micro - PEEK
10 10 081	S 1130G Quaternary Gradient Pump - Analytical - SS
10 10 083	S 1130G Quaternary Gradient Pump - Analytical - PEEK
10 10 118	S 1130G Quaternary Gradient Pump - Semi-Prep. - SS
10 10 119	S 1130G Quaternary Gradient Pump - Semi-Prep. - PEEK
20 20 061	<i>option:</i> Active Piston Backflushing
10 10 085	<i>option:</i> Vacuum Degasser

■ S 1132 Binary Gradient Pump

Catalog No	Description
10 10 091	S 1132 Binary Gradient Pump - Micro - SS
10 10 093	S 1132 Binary Gradient Pump - Micro - PEEK
10 10 090	S 1132 Binary Gradient Pump - Analytical - SS
10 10 092	S 1132 Binary Gradient Pump - Analytical - PEEK
10 10 123	S 1132 Binary Gradient Pump - Semi-Prep. - SS
10 10 122	S 1132 Binary Gradient Pump - Semi-Prep. - PEEK
20 20 061	<i>option:</i> Active Piston Backflushing
10 10 098	<i>option:</i> Vacuum Degasser

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All specifications are subject to
change without notice.

