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Alltech 426

HPLC Pumps

We Have a Pump for Every Need and Budget

Use this pump feature comparison chart to choose the pump that is best for your application, then go to the catalog page for more information.

Model	Catalog Page	Flow Range	Isocratic/Gradient	Pressure Monitoring
301 HPLC Pump	18	0.01 - 10mL/min	isocratic	No
426 HPLC Pump	18	0.01 - 10mL/min	isocratic	Yes
626 HPLC Pump	19	0.001 - 12mL/min	isocratic or binary gradient	Yes
627 Preparative Pump	19	0.01 - 100mL/min	isocratic or binary gradient	Yes
442 Binary Gradient Pump	20	0.001 - 5.000mL/min	binary gradient	Yes
801 Ultra-High Pressure Pump	20	0.001 - 5.000mL/min	isocratic or binary gradient	Yes
727 Quaternary Gradient Pump	21	0.001 - 5.000mL/min	quaternary gradient	Yes

Alltech® 426 and 301 HPLC Pumps

Low-Cost, High-Performance Isocratic Pumps Both pumps feature:

- Built-in pulse dampener and rapid refill for pulse-free operation
- Self-flushing pump head for longer seal-life
- Automatic prime/purge system for easy priming
- Wide flow range for broad HPLC work, including semi-preparative applications
- EZChrom driver and cables included

The Model 426 has these additional features:

- User-settable upper and lower pressure limits
- Pressure monitoring on the LCD
- Interfacing features for convenient pump control

Model	301 HPLC Pump	426 HPLC Pump
Flow Range:	0.01–10mL/min	0.01–10mL/min
Isocratic/gradient:	Isocratic	Isocratic
Pressure Monitoring:	No	Yes
Max. Operating Pressure:	6000psig (SS), 5000psig (PEEK)	6000psig (SS), 5000psig (PEEK)
Flow Precision:	0.2% RSD	0.2% RSD
Flow Accuracy:	±2.0%	±2.0%
Dimensions:	6" H x 11" W x 18" D (15cm H x 26cm W x 46cm D)	6" H x 11" W x 18" D (15cm H x 26cm W x 46cm D)

Weight:	30lb (14kg)	30lb (14kg)
Warranty:	3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor	3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor
Drivers:	EZChrom Elite/EZStart	EZChrom Elite/EZStart

Model 426 and 301 HPLC Pumps

Description Part No.

Model 426 HPLC Pump

PEEK, 85–265VAC, 47–63Hz: **426150**

Stainless Steel, 85–265VAC, 47–63Hz: **426250**

Model 301 HPLC Pump

PEEK, 85–265VAC, 47–63Hz: **301150**

Stainless Steel, 85–265VAC, 47–63Hz: **301250**

Model 426 and 301 HPLC Replacement Parts

Description Part No.

Pump Head Kit, PEEK: **120800**
Pump Head Kit, Stainless Steel: **120799**
Piston Seal Kit: **120680**
Piston: **121486**
Check Valve Kit, PEEK: **060141**
Check Valve Kit, Stainless Steel: **120679**

Note: All replacement parts contain parts for one pump head only.

More info

All pumps can be controlled by EZChrom Elite or EZStart chromatography data systems. The driver and cables are included with every pump. If you wish to separately purchase the Driver Kit, please refer to part number **8619000**.

HPLC Pumps

Alltech® 626 HPLC Pump

High-Performance Isocratic or Binary Gradient Pump

- Suitable for standard and microflow applications
- Dual-piston mechanism for pulse-free operation
- Built-in low dead volume pulse dampener
- Self-flushing pump head for longer seal life
- EZChrom driver and cables included

The Model 626 Pump is a rugged and reliable component for a basic analytical system, a sophisticated method development system, or for general laboratory or industrial use. It is available in either traditional 316 stainless steel or biocompatible PEEK.

Buy a single 626 Pump for isocratic applications. Add a second 626 pump for high pressure binary gradients.

626 HPLC Pump Specifications

Flow Range: 0.001–12mL/min
Fluid Path: PEEK or Stainless Steel
Isocratic/gradient: Isocratic or binary gradient
Pressure Monitoring: Yes
Max. Operating Pressure: 6000psig (SS), 5000psig (PEEK)
Flow Precision: 0.2% RSD

Flow Accuracy: $\pm 2.0\%$

Dimensions: 6" H x 11" W x 18" D

(15cm H x 26cm W x 46cm D)

Weight: 30lb (14kg)

Warranty: 3-year parts, excluding seals, check valves,
and pulse dampener; 1-year labor

Gradient Mixing Mode: High-Pressure

Profiles: Programmable Multi-step

Gradient Programming: 10 methods with up to 100 lines per method

Drivers: EZChrom Elite/EZStart

Model 626 HPLC Pump

Description	Part No
<i>Isocratic System</i>	626150
PEEK, 85–265VAC, 47–63Hz	626250
Stainless Steel, 85–265VAC, 47–63Hz	
<i>Binary Gradient System (Includes 2 pumps, mixing tee, SCU Keypad Controller, tubing, and fittings)</i>	
PEEK, 85–265VAC, 47–63Hz	626350
Stainless Steel, 85–265VAC, 47–63Hz	626450

Accessories and Replacement Parts for Model 626

Description	Part No.
<i>Accessories</i>	105626
SCU Keypad Controller	
High-pressure Gradient Kit, PEEK (Includes controller, mixing tee, fittings, and tubing)	
High-pressure Gradient Kit, Stainless Steel (Includes controller, mixing tee, fittings, and tubing)	105624
<i>Replacement Parts</i>	160566
Piston Seal Kit	
Piston	160565
Check Valve Kit, Stainless Steel	120679
Check Valve Kit, PEEK	060141

Note: All replacement parts contain parts for one pump head only.

Alltech® 627 Prep Pump

Ideal for Scale-up Work, Semi-Prep and Preparative HPLC

- Dual-piston mechanism for pulse-free operation
- Built-in low dead volume pulse dampener
- Self-flushing pump head for longer seal life
- Isocratic or high-pressure binary gradient
- EZChrom driver and cables included

The Model 627 Preparative Pump delivers the accuracy and precision of a standard analytical pump at flow rates up to 100mL/min.

627 Preparative Pump Specifications

Flow Range: 0.01–100mL/min

Fluid Path: PEEK or Stainless Steel

Isocratic/gradient: Isocratic or binary gradient

Pressure Monitoring: Yes

Max. Operating Pressure: 4000psig (both SS and PEEK)

Flow Precision: 0.5% RSD

Flow Accuracy: $\pm 2.0\%$

Dimensions: 6" H x 11" W x 18" D (15cm H x 26cm W x 46cm D)

Weight: 35lb (16kg)

Warranty: 3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor

Gradient Mixing Mode: High-Pressure

Profiles: Programmable Multi-step

Gradient Programming: 10 methods with up to 100 lines per method

Drivers: EZChrom Elite/EZStart

Model 627 Preparative Pump

Description	Part No.
<i>Isocratic System</i> PEEK, 85–265VAC, 47–63Hz	627150
Stainless Steel, 85–265VAC, 47–63Hz	627250
<i>Binary Gradient System (Includes 2 pumps, mixing tee, SCU Keypad Controller, tubing, and fittings)</i>	
PEEK, 85–265VAC, 47–63Hz	627350
Stainless Steel, 85–265VAC, 47–63Hz	627450

Accessories and Replacement Parts for Model 627

Description	Part No.
<i>Accessories</i>	
SCU Keypad Controller	726400
High-pressure Gradient Kit, PEEK (Includes controller, mixing tee, fittings, and tubing)	105625
High-pressure Gradient Kit, Stainless Steel (Includes controller, mixing tee, fittings, and tubing)	105628
<i>Replacement Parts</i>	
Piston Seal Kit	120681
Piston	121504
Check Valve Kit, Stainless Steel	120679
Check Valve Kit, Metal-Free	060141

Note: All replacement parts contain parts for one pump head only.

HPLC Pumps

Alltech® 442 Binary Gradient Pump

442 Binary Gradient Pump Specifications

Flow Range: 0.001–10mL/min

Fluid Path: PEEK or Stainless Steel

Isocratic/gradient: Binary

Pressure Monitoring: Yes

Max. Operating Pressure: 6000psig (Stainless Steel) 5000psig (PEEK)

Flow Precision: 0.5% RSD

Flow Accuracy: ±1% of full-scale pressure

Dimensions: 7" H x 10.5" W x 15.25" D (18cm H x 27cm W x 39cm D)

Weight: 24lb (11kg)

Warranty: 3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor

Gradient Mixing Mode: High-pressure

Profiles: Programmable Multi-step through EZChrom Elite

Gradient Programming: 0–100% in 0.1% increments

Control: EZChrom Elite/EZStart or SCU Keypad Controller

Binary Gradient Pumps for Advanced Applications

- Fast and easy setup

- RS232 serial PC interface
- EZChrom driver and cables included

Two high-performance pumps, a pulse dampener, and an offline pressure transducer in a single unit for accurate, reproducible chromatography gradients. With simple setup and reduced maintenance, this pump is an easy way to add gradient capabilities to your HPLC system.

Model 442 Binary Gradient HPLC Pump

Description	Part No.
<i>Model 442 Binary Gradient Pump</i>	
PEEK, 85–265VAC, 47–63Hz	8617782
Stainless Steel, 85–265VAC, 47–63Hz	8617781
<i>Optional Controller</i>	
SCU Keypad Controller	726300

Note: the SCU Keypad Controller is necessary to program gradients if you do not have EZChrom Software.

Replacement Parts for Model 442

Description	Part No.
442 Aqueous Seal Kit 10mL (for 1 head)	8619074
442 Organic Seal Kit 10mL (for 1 head)	8619075
Piston Assembly 10mL (for 1 head)	8619076
PEEK Check Valve Kit (for 1 head)	8619079
Stainless Steel Check Valve Kit (for 1 head)	8619078

Note: All replacement parts contain parts for one pump head only.

Alltech® 801 Ultra High-Pressure HPLC Pump

801 High-Pressure Pump Specifications

Flow Range: 0.001–5.000ml/min

Fluid Path: Stainless Steel

Isocratic/gradient: Isocratic

Pressure Monitoring: Yes

Max. Operating Pressure: 18,000psig

Flow Precision: 0.2% RSD

Flow Accuracy: <±1% at 1mL/min; 10,000psig; with Methanol

Dimensions: 5.5" H x 10.375" W x 19" D (14cm H x 26.4cm W x 48.3cm D)

Weight: 30lb (13.6kg)

Warranty: 3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor

Profiles: Programmable Multi-step through EZChrom Elite

Gradient Programming: 0–100% in 0.1% increments

Control: EZChrom Elite/EZStart or SCU Keypad Controller

Accurate, Even Pressure Up to 18,000psig

- Pressure Capability: 18,000psig
- Automatic pressure calibration
- Advanced recompression software
- EZChrom driver and cables included

The ultra high-pressure digital pump is designed for high-speed, high-pressure chromatography applications. It provides accurate flows under demanding conditions, from normal HPLC pressures up to 18,000psig.

Model 801 High-Pressure HPLC Pump

Description	Part No.
<i>Model 801 High-Pressure Pump</i>	
Stainless Steel, 85–265VAC, 47–63Hz	8618710

Accessories and Replacement Parts for Model 801

Description	Part No.
<i>Accessories</i>	
SCU Keypad Controller	726300
<i>Replacement Parts</i>	
801 Pump Seal Kit 5mL	8619071
Piston Assembly 5mL (for 1 head)	8619077
Stainless Steel Check Valve Kit (for 1 head)	8619078

Note: The SCU Keypad Controller is necessary to program gradients if you do not have EZChrom Software. All replacement parts contain parts for one pump head only.

HPLC Pumps

Alltech® 727 Quaternary Gradient HPLC Pump *High-Pressure Quaternary Gradients for Standard or Micro Applications*

- EZChrom driver and cables included
- Integrated pulse dampener reduces pulsations and mixes gradients accurately
- Self-flushing pump heads extend seal life
- Easy gradient programming with hand-held control module

The Model 727 Quaternary Gradient Pump combines four high-performance pumps in a single cabinet. The system controller controls each pump independently, for accurate gradients. Flow rates are programmable from 0.001mL/min to 5.000mL/min making it suitable for standard or micro applications. The 727 pump is available in 316 stainless steel or biocompatible PEEK.

727 Quaternary Gradient Pump Specifications

Max. Operating Pressure: 6000psig (Stainless Steel) 5000psig (PEEK)

Fluid Path: PEEK or Stainless Steel

Flow Rate Range: 0.001–5.000mL/min

Flow Precision: 0.5% RSD

Flow Accuracy: $\pm 2.0\%$

Gradient Mixing Mode: High-pressure Gradient

Profiles: Programmable Multi-step

Gradient Programming: 0–100% in 0.1% increments

Dimensions: 9" H x 15" W x 20.5" D (23cm H x 38cm W x 52cm D)

Weight: 50lb (23kg)

Warranty: 3-year parts, excluding seals, check valves, and pulse dampener; 1-year labor

Control: EZChrom Elite/EZStart or SCU Keypad Controller

Model 727 Quaternary Gradient HPLC Pump

Description	Part No.
<i>Model 727 Quaternary Gradient Pump</i>	
PEEK, 85–265VAC, 47–63Hz	8618931
Stainless Steel, 85–265VAC, 47–63Hz	8618930
<i>Optional Controller</i>	
SCU Keypad Controller	726300

Note: the SCU Keypad Controller is necessary to program gradients if you do not have EZChrom Software.

Replacement Parts for Model 727

Description	Part No.
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727 Aqueous Seal Kit 5mL (for 1 head)	8619072
727 Organic Seal Kit 5mL (for 1 head)	8619073
Piston Assembly 5mL (for 1 head)	8619077
PEEK Check Valve Kit (for 1 head)	8619079
Stainless Steel Check Valve Kit (for 1 head)	8619078

Note: All replacement parts contain parts for one pump head only.



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