

Best Value  
Guaranteed Product Quality  
Innovation to Benefit Customers

**Sample  
Preparation**

**Better  
Solutions for  
Chromatography**

**Chemical  
Analysis**





Chemical  
Purification

## Bonna-Agela Technologies — A Global Supplier for Chromatography Solutions

Bonna-Agela, is dedicated to improve the future in Chromatography Science & to assist scientists worldwide in achieving their scientific goals by using chromatography products from Bonna-Aegla used in scientific discovery and analysis. Benefiting from years of research and product development, we are industry specialist in silica and polymer bonding technologies by which we produce solution in field of Sample Preparation, HPLC Columns and Preparative Purifications. We also cater Instrumentation for Sample Preparation and Purification for scientists interested in Atomization of their analysis processes.

Our core objective is to provide total solutions to Pharmaceuticals, Bioanalysis, Food Safety, Environmental & Clinical applications and scientist involved in these fields.

With our customers and industry, we earned reputation for innovative expertise, uncompromised quality maintain system, and comprehensive solution tailored to customer requirements from a decade. The very result of this is we have developed trust and faith among our customers and we are progressive towards developing new solutions for our customers.

Our main objective is to give our customers utmost importance and quick response.

# How to Place Orders

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USA office is open from 9:00 am to 5:00 pm Pacific Standard Time, Monday through Friday.  
To place an order or receive a quote, you may choose from the following contacts:

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Torrance, CA 90501, USA  
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E-mail : [info@agela.com](mailto:info@agela.com)

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## LS-Prep Big Scale Purification System

The WHALE System, equipped with a high pressure gradient mixing system, is designed to meet demands of large scale purification from milligrams to grams level.

The WHALE System is useful for all varied purification applications ranging from Synthetic to Natural Products to Biopharmaceutical Samples.

## WHALE High Performance Preparative Liquid Chromatography System

*Lab Scale Purification  
Compact Lab Design  
Precise Fraction Collection  
Solvent Recycling*



*Up to 1000 mL/min flow rate  
Up to 100 grams-scale quantities  
Inline Sample Dilution*

## Features

- ▲ Binary gradient system to ensure excellent separation performance
- ▲ Automatic fraction collection to enable large scale collection
- ▲ Individual Solvent Recycling to save Solvent Cost
- ▲ 6 individual fraction collecting channels to avoid cross-contamination
- ▲ Optional Evaporative Light Scattering Detector and Refractive Index Detector
- ▲ Compatible with Bigger Scale Flash Columns 800 gm, 1500 gm, 3000 gm and 5000 gm
- ▲ Compatible with 50 mm, 100 mm, 150mm and 200mm DAC Column

## Specifications

PUMP			
Pump Type	Binary Gradient Pump		
Pump Model	H-300	H-600	H-1000
Flow Rate Range	10 mL/min-300 mL/min	10 mL/min-600 mL/min	10 mL/min-1000 mL/min
Flow Rate Accuracy	±2%(30-270 mL/min)	±2%(60-540mL/min)	±3%(100-900 mL/min)
Gradient Range	0-100%	0-100%	0-100%
Maximum System Pressure	10Mpa	10 Mpa	5 Mpa

DETECTOR		
Detector Type	UV-Vis detector	Photo-Diode Array detector
Product Model	UV-600L	UV-800L
Wavelength Range	200-600nm, dual channel	200-800nm, full scan
Light Source	Deuterium Lamp	Deuterium Lamp, Tungsten Lamp
Absorbance Range	0-5AU	
Noise	5×10 <sup>-5</sup> (254nm)	
Drift	1×10 <sup>-3</sup> (254nm)	
Wavelength Accuracy	1nm	
Optional	Evaporative Light Scattering Detector , Refractive Index Detector	

POWER AND DIMENSION	
Power	200 W
Voltage	110V/220V, 50~60Hz
Net weight	75 kg
Size	760mm×510mm×430mm(L×W×H)

Cat. No	Product Information
FL-LS300G	300 mL/min, binary gradient, 200-600 nm UV-Vis detector
FL-LS300GP	300 mL/min, binary gradient, 200-800 nm PDA detector
FL-LS600G	600 mL/min, binary gradient, 200-600 nm UV-Vis detector
FL-LS600GP	600 mL/min, binary gradient, 200-800 nm PDA detector
FL-LS1000G	1000 mL/min, binary gradient, 200-600 nm UV-Vis detector
FL-LS1000GP	1000 mL/min, binary gradient, 200-800 nm PDA detector
C-1000	Fraction Collector

## OCTOPUS Purification System

### Two in one MODULAR PREPARATIVE HPLC instrument

Medium to high pressure preparative chromatography, Two in one MODULAR PREPARATIVE HPLC instrument with a wide range flow-rate and pressure options for various purification applications. OCTOPUS is designed for chemists to purify synthetic and natural compounds from crude extracts using Flash & HPLC preparative columns.

OCTOPUS offers a unique platform with higher flexibility and reproductivity.



*Modular design*  
*Stylish appearance*  
*Module identification*  
*Plug & Play features*  
*Tablet & PC control*

*Fully Protected*  
*Compact*  
*Reliable*  
*Robust*  
*Easy to use*



## Features

### ▲ High Productivity

The OCTOPUS can handle not only the flash columns but also preparative HPLC columns to maximize purification of compounds and load ability of crude samples in single system.

With ATS Autosampler and column switcher high throughput applications can be achieved.

### ▲ High Flexibility

Three interchangeable pump modules to carryout binary or quaternary gradient application. The pressure range is from 200 psi to 2900 psi with the flow-rate ranging from 1 mL/min to 200 mL/min. The basic system can be extended by coupling with various detectors, auto-sampler and column switcher for advanced purification experiments.

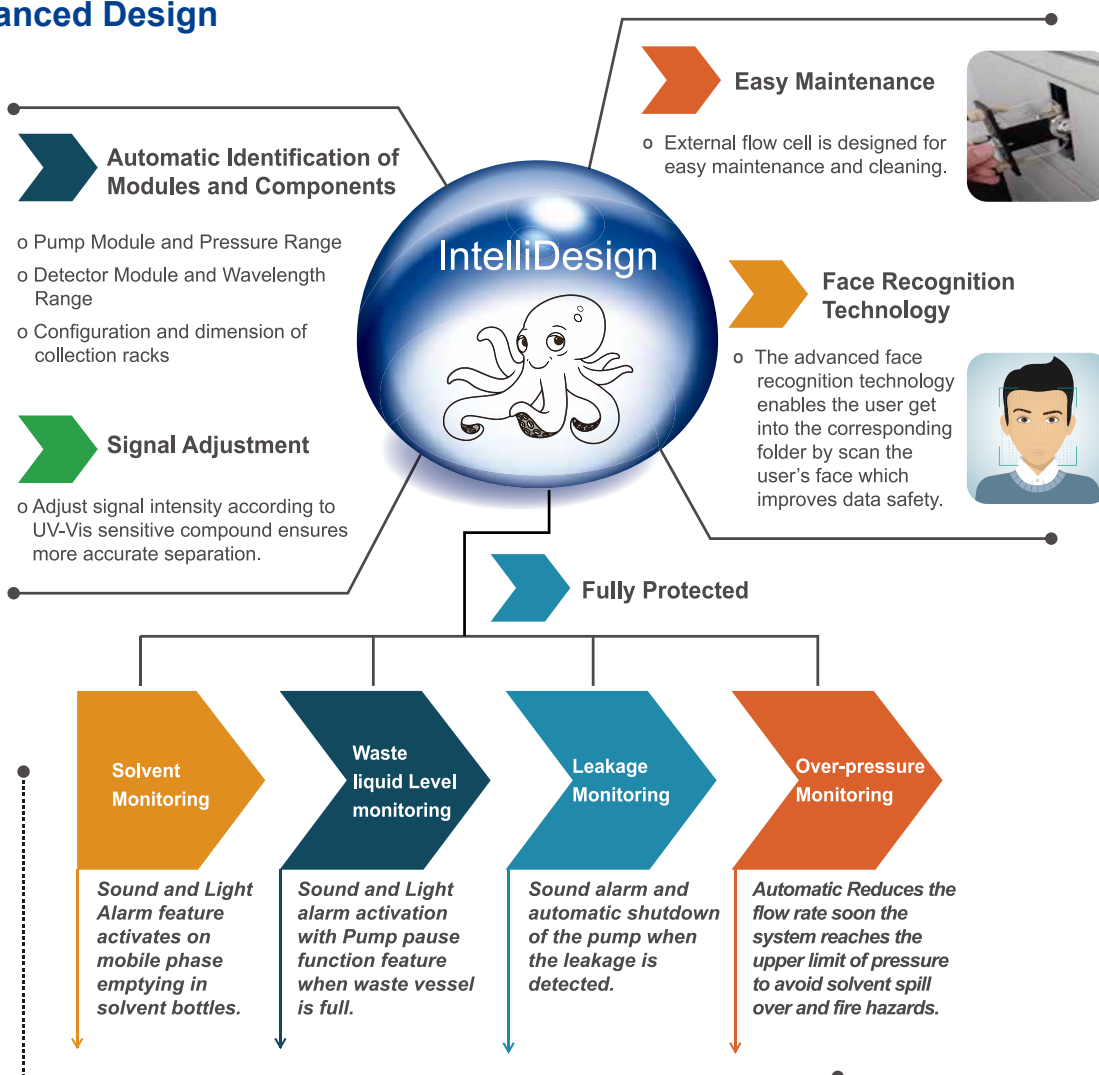
### ▲ High Efficiency

All in one system saves time and increases throughput. Plug and play function results in easy performance.

Automatic features enable System Alarms to avoid loss of samples and for safety of Instrument and lab.

Plug and play functions facilitate the usage of various pumps, auto-sampler, column switcher and racks swiftly.

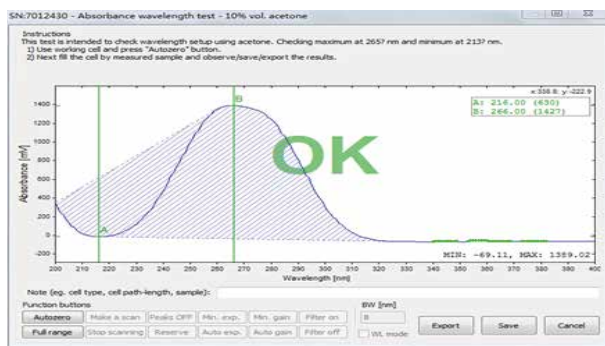
## Advanced Design



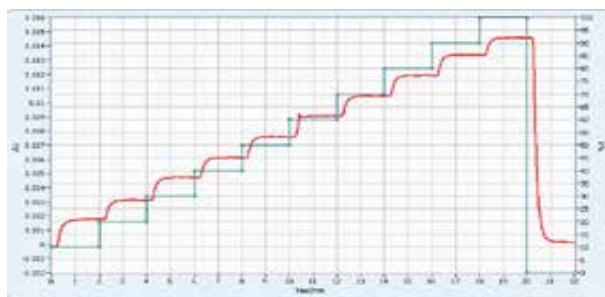


## Reliable Performance

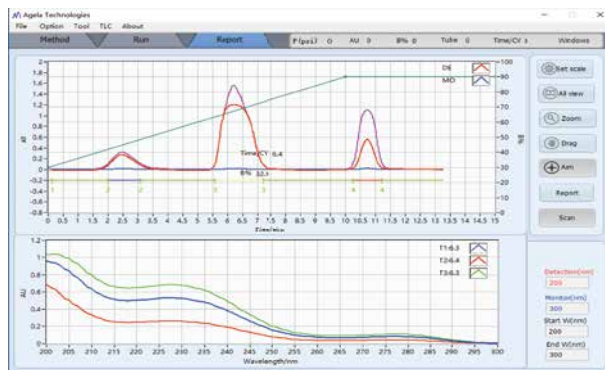
▲ Wavelength calibration enhance reliability and accuracy.



▲ Stable and precise solvent delivery system results in more reproducible separation.



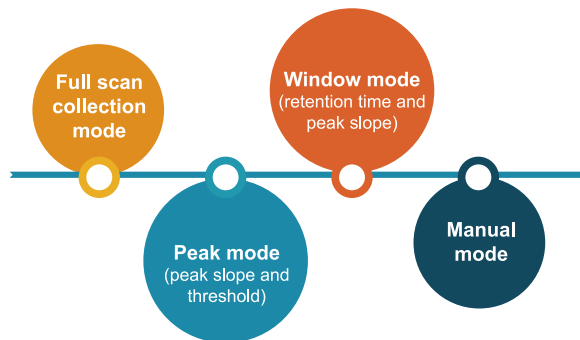
▲ Full range wavelength scanning determines peak purity.



▲ Lamp source indicator gives the hints to operator to change lamp at correct time.



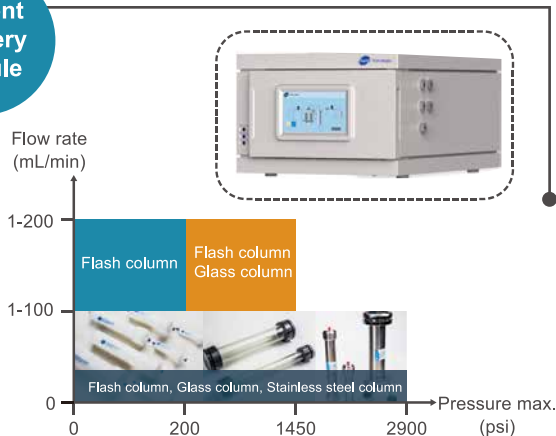
▲ Build-in fraction collector with various collection model and identifiable collection racks.



## State-Of-the-Art Components and accessories

DIY (Design IT Yourself) purification system to meet purification goals.

### Solvent Delivery Module



Three pumps enable to couple a wide range of the separation columns to meet various purification needs.

### Fraction Collector



### Accessories



### Detector



- UV-Vis/PDA with different Spectra Range for UV-Vis Sensitive Compounds.

- Evaporative Light Scattering Detection for Carbohydrates, Lipids, Polymers, Fatty Acids, Amino Acids, Surfactants and Drugs.

- RI Detector for Non-Chromophoric Compounds Detection Like Polymers, Sugars, Organic Acids, Triglycerides.

- Mass spectrometer (MS) is suitable for various applications.

## Specifications

Instrument Model	OCTOPUS FLASH M 200	OCTOPUS FLASH M 204	OCTOPUS FLASH PREP H200	OCTOPUS FLASH PREP H100
Part Number	M-200	M-204	H-200	H-100

PUMP				
Gradient	Binary	Quaternary	Binary	Binary
Model Number	M-200	M-204	H-200	H-100
Flow Rate	1-200 mL/min	1-200 mL/min	1-200 mL/min	1-100 mL/min
Flow Rate Accuracy	±2%	±2%	±2%	±1%
Pressure Limit	200 psi	200 psi	1450 psi	3000 psi
Gradient Curves	Linear, Step, Isocratic	Linear, Step, Isocratic	Linear, Step, Isocratic	Linear, Step, Isocratic

DETECTOR			
UV-VIS/PDA DETECTOR			
Detector	UV	PDA	UV-Vis
Model Number	UV2060/B	PDA2080/B	UV2080/S
Standard Wavelength	200-600 nm	200-800 nm	200-800 nm
DUAL Wavelength	Available	Available	Available
Flow Cell Volume	40 µL	40 µL	40 µL
Spectral Half-width (Typical)	8nm	8nm	8nm
Drift	1 × 10 <sup>-3</sup> AU/hr	1 × 10 <sup>-3</sup> AU/hr	1 × 10 <sup>-3</sup> AU/hr
Noise	± 5 × 10 <sup>-5</sup> AU	± 5 × 10 <sup>-5</sup> AU	± 5 × 10 <sup>-5</sup> AU
Full Scanning Mode	Not Applicable	YES	Not Applicable
3-Dimensional View	Not Applicable	YES	Not Applicable
Lamp Source	Deuterium	Deuterium & Tungsten	Deuterium & Tungsten
Lamp Hours	Built-in lamp counter	Built-in lamp counter	Built-in lamp counter

FRACTION COLLECTOR	
Model Number	C-200
Racks	4
Rack Capacity	Standard 18mm tubes, 208 tubes and 13 mm (240 tubes) / 15 mm (300 tubes) / 25 mm (120 tubes)
Rack Auto-Identify	YES
Raction Collection Modes	Peak (threshold and slop), Manual, All, Windows (threshold and time)
Gradient Curves	Linear, Step, Isocratic

SAFETY & SOFTWARE FEATURERS	
Solvent Sensor	Available
Solvent Level Sensor	Available
Waste Solvent Sensor	Available
Over Pressure Sensor	Available
Leak Sensor	Available
Syetem Auto Washing	Available
Operating Software	Windows 10
Computer Specifications	4G RAM, 1.8GHz, 128G Disk Space, 12.1 inch Monitor Screen

*ELSD/RI/AUTOSAMPLER/COLUMN SWITCHING are optional.*

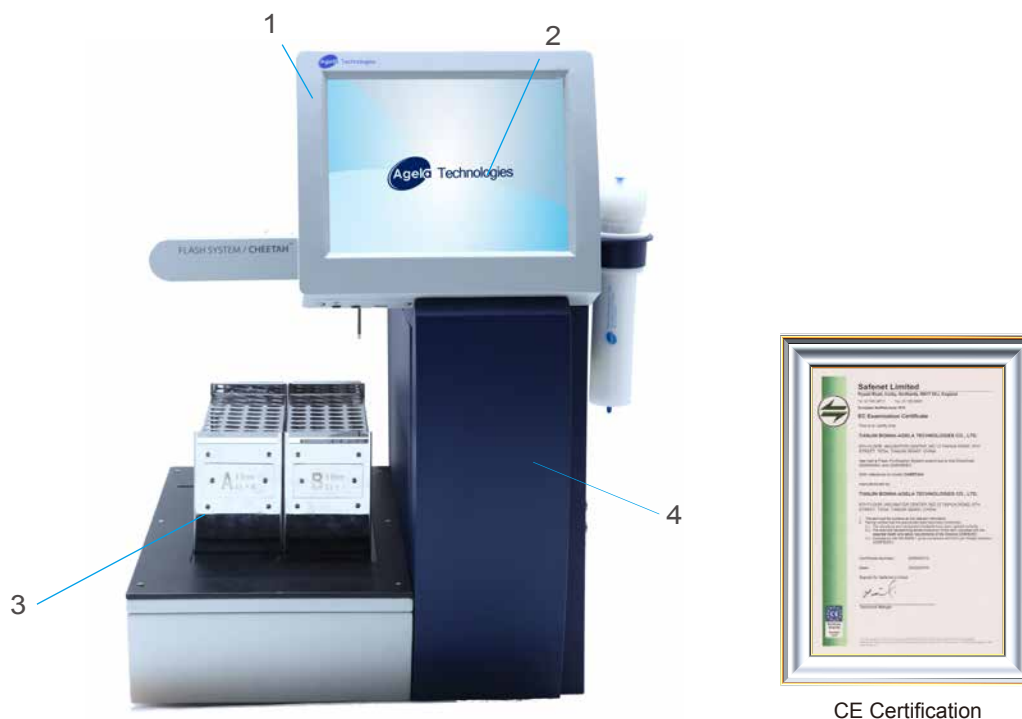
# CHEETAH<sup>®</sup> Series Purification Systems

## CHEETAH<sup>®</sup> MP Series Purification Systems

Bonna-Agela Technologies invents CHEETAH<sup>®</sup> MP Series preparative chromatography system to significantly improve the throughput of purification in synthetic and natural product chemistry. CHEETAH<sup>®</sup> MP Series is designed to automate purification process with online peak detection and fraction collection. The systems are the revolutionized replacement of traditional column chromatography.

### Features

- ▲ User-friendly interfaces
- ▲ Binary or quaternary gradient elution
- ▲ Built-in method conversion from TLC Rf values to column gradient
- ▲ Fraction management: Peak (threshold and slop), Manual, All, Windows (threshold and time)



1. Centered control of purification with 12.1 inch touch screen computer
2. Dual UV wavelength detection and peak-to-tube tracking
3. Oxidized coating to avoid solvent corrosion
4. Integrated design for convenient bench-top operation

## Specifications

Instrument Model	CHEETAH® MP			
------------------	-------------	--	--	--

PUMP				
Instrument Model	FS-9200T	FS-9204T	FS-9200S	FS-9204S
Solvent System Pump	Binary	Quaternary	Binary	Quaternary
	CHEETAH® MP 200: Max.Flow Rate: 200 mL/min; Max. pressure: 200 psi			
Gradient Range	Linear or step or linear/step elution with on-the-fly editing feature			

DETECTOR		
Detector Type	UV	UV-Vis
Wavelength Range	200-600 nm	200-800 nm
Light Source	Deuterium Lamp	Deuterium Lamp, Tungsten Lamp
Absorbance Range	0-5 AU	
Wavelength Accuracy	±1 nm	

FRACTION COLLECTOR	
Fraction Collector	13, 15, 18 or 25 mm tube; and 100 mL tube rack is optional round-bottomed flask; self defined coordinates for customized collection. No-Limit collection volume; Large volume collection up to 1L.

SAFETY & SOFTWARE FEATURERS	
System Control	CHEETAH® purification software: Integral instrument control, data acquisition and fraction collection management; Windows 7 operating platform. Computer: 4 GB memory, 12.1 inch touch screen, Processor: 1.8 GHz
Leak Sensor	Available

POWER AND DIMENSION	
Power	360 W
Voltage	110 V / 220 V, 50~60 Hz
Net weight	60 kg
Size	593 mm×602 mm×695 mm (L×W×H)

CERTIFICATIONS	
CE Certified	



Column Holder



Injector

## Functions

Description	
Co-solvent	In Quaternary system, a co-solvent can be added at any time during the run (as a fixed or user set percentage) to avoid sample precipitation during purification.
Column History	In built feature in method tab to select column size and stationary phase according to method requirement, this feature enables in all column format like pre -pack, empty or glass columns of Bonna-Agela and other maufacturers.
System protection	Alarm will be triggered if pressure exceeds maximum setting to protect the system.
Multi Detector Option	System has one standard build-in detector and one optional attached detector like ELSD (Evaporative Light-scattering), RI(Refractive Index).
Compatibility	Compatible with any flash columns available on the market such as disposable and glass columns from 4 gm to 1500 gm pre-pack or empty columns depending on sample nature and stationary phase. Cheetah <sup>®</sup> MP is compatible with maximum stationary phases from Bonna-Agela or other manufacturer like Standard Silica, Deactivated Silica, Reverse Phase (C18), HILIC, NH <sub>2</sub> , C8, SAX, SCX, Alumina Neutral, Alumina Basic, Alumina Acidic, AQ C18, Spherical Silica with particle size of 40 - 60 μm and 20 - 35 μm with customized scalability.
System Washing	Washing procedure can be put in during gradient setting for automated system washing at the end of run according to column specifications ( like Pre-pack, Reusable or Glass columns).
Loading Capacity	Delivers a wide range of sample loading facility from 0.1 gm to 80 g (Depending on the sample nature & Stationary phase)
Parameters Editing	Maximum parameters can be edited during run like Flow rate, Collection volume, Collection or fractionation mode, Solvent composition.
Initial Waste	This function is used to directly discharge any left-over fluid from previous experiment to the first test tube known waste to avoid any carryover of fluid or cross contamination to concurrent experiment.

## CHEETAH® HP Series Prep HPLC

CHEETAH® HP 100 is an automated high pressure preparative LC system from Bonna-Agela Technologies. It is an integrated system featuring binary gradient pump, UV detector and fraction collector. The maximum backpressure of the system is 20 MPa, and the max flow rate is 100 mL/min. Compact footprint and easy operation ensures your lab analysis run smoothly. It is suggested to purify complex sample by using high-solutions columns packed with small particle media.

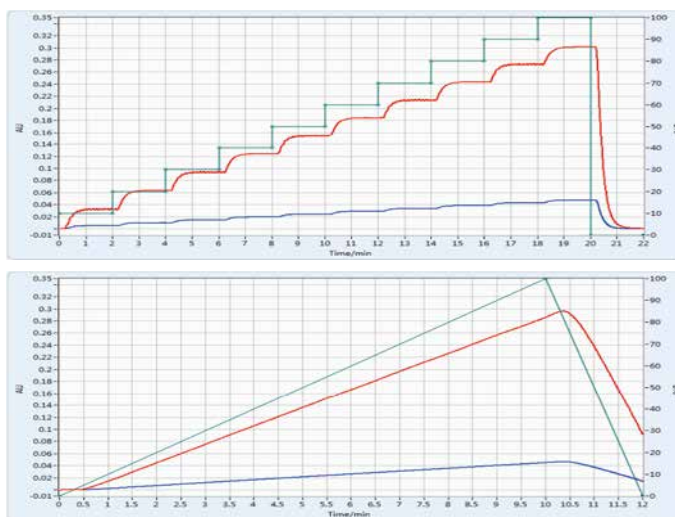
### Main Features

- ▲ One point control via touch screen PC
- ▲ User friendly interfaces
- ▲ Dual wavelength detection/monitor via UV detector, ELSD and RI detector is optional
- ▲ Intelligent fraction collecting: All/Volume, manual, slope/threshold and time windows.

### Applications

- ▲ Purification of synthetic compounds
- ▲ Purification of complex mixture of synthetic compounds
- ▲ Isolation of biopolymers such as peptides and nucleotides
- ▲ Separation of combi chem arrays
- ▲ Purification of natural products

### Pump



- ▲ Cam compensation produces low delivery pulse
- ▲ Multiple-point calibration ensures accurate flow delivery
- ▲ Floating design of plunger prolongs lifetime of seals

### Injection Valve

- ▲ 6 port manual valve
- ▲ 10 mL Loop (Standard), 1-10 mL is optional
- ▲ Max Pressure 5000 psi, 1/16" tubing



## Specifications

Instrument Model	CHEETAH® HP 100	
Instrument Model	HS-1000T	HS-1000ST

PUMP	
Pump Type	Binary
Flow Rate	1 -100 mL/min; Max. pressure: ≤20 MPa
Increment	1 mL/min

DETECTOR		
Detector Type	UV	UV-Vis
Wavelength Range	200-600 nm	200-800 nm
Light Source	Deuterium Lamp	Deuterium Lamp, Tungsten Lamp
Absorbance Range	0-5 AU	
Wavelength Accuracy	±1 nm	

FRACTION COLLECTOR	
Collection Container	13, 15, 18 or 25 mm tube; and 100 mL round-bottomed flask customized test tube rack is available. No-Limit collection volume; Large volume collection is optional.
Collection Mode	Peak (threshold and slop), Manual, All, Windows (threshold and time)

SAFETY & SOFTWARE FEATURES	
System Control	CHEETAH® purification software: Integral instrument control, data acquisition and fraction collection management; Windows 7 operating platform. Computer: 4 GB memory, 12.1 inch touch screen, Processor: 1.8 GHz
Leak Sensor	Available
Safety	Real-time over pressure alarm/Leakage alarm.

POWER AND DIMENSION	
Power	360 W
Voltage	110 V / 220 V, 50~60 Hz
Net weight	60 kg
Size	593 mm×602 mm×695 mm (L×W×H)

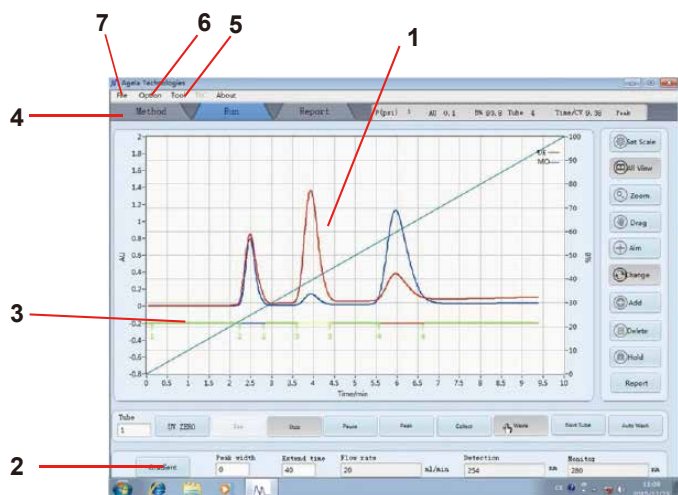
CERTIFICATIONS
CE Certified



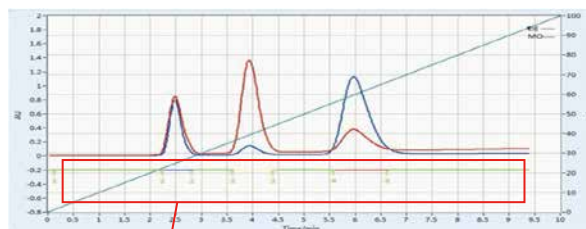
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## Software Feature



### 3. Rapid seeking for the components



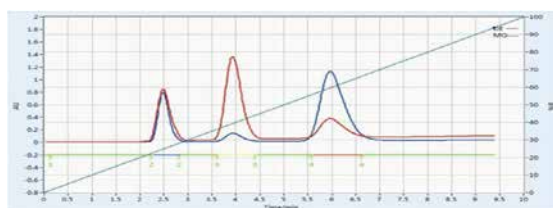
Identified collection tube displaying on line.

### 4. Various modes for collection and detection



Fraction can be collected through different ways.

### 1. Dual-wavelength



The fraction can be collected under collection wavelength or monitoring wavelength. The difference of absorbance from the two channels can also be calculated.

### 2. Rapid Modification of Gradient Curve On Time

During a run, by a simple click, users can easily edit the running gradient profile.

Line	Start	Solvent B%	End	Min Duration
Equ	0	0	5	5
1	0.0	100.0	10.0	

### 5. User Oriented Collector

Definition of collection coordinates are accessible to users. Besides the default tubes, user can define coordinated for customized applications.



### 6. RI/ELSD

Built-in interface for RI and ELSD detectors for mass-type detection of compounds such as polysaccharides. The collection through a RI/ELSD detector is available.



### 7. Report

Figure layout can be showed on screen and figure in PDF or CSV form can be generated. PDF can be generated in series.

# FLEXA™ Series Modular Purification Systems

Bonna-Agela Technologies offers a line of modular components for LC purification. The FLEXA™ series provides flexibility of choosing a customized system based on user's specification.

The option includes a variety of stand-alone pumps, detectors, autosampler, collector and column switcher.

## FLEXA™ Series Pump

- ▲ Different flow range options;
- ▲ Online Pressure Displaying;
- ▲ Over-pressure alarm ensures safety operation.



### HP Series Pump

Cat. No	HP-Q-P050	HP-Q-P100	HP-Q-P600	HP-Q-P1000
Max Pressure	30 Mpa	20 Mpa	10 Mpa	5 Mpa
Pump Max Flow Rate	50 mL/min	100 mL/min	600 mL/min	1000 mL/min
Flow Precision	±1 %	±1 %	±2 %	±3 %
Gradient Type	Binary (Double pump)	Binary (Double pump)	Binary	Binary
Application	Preparation	Preparation	Preparation	Preparation

## FLEXA™ Series Detectors

### UV and UV-Vis

- ▲ Different Wavelength Options
- ▲ Auto-Zero and Attenuation Function



### HP Series Detector

	UV Detector	Wavelength Detector
Cat. No	HP-Q-UV100	HP-Q-UV100S
Wavelength Range	200-400 nm	200-800 nm
Channel	Dual-wavelength	Dual-wavelength
Absorbance Range	≤5 AU	≤5 AU
Light Source	Deuterium lamp	Deuterium lamp Tungsten lamp
Auto Zero	By Digital	By Digital
Screen	320×240 Pixels	320×240 Pixels

## ELSD

All channels are made of inert materials, easy to clean.

Cat. No		FP-ELSD
<b>COMPONENTS</b>		
Detection	Photodiode	
Light Source	Blue LED Elapsed Time Counter	
Temperature Range	Ambient to 100°C	
Nebulizer	Flash-Purif	
Eluent Flow Rate	100 µL/min to 5 mL/min	
Typical Sensitivity	100 ng	
<b>DATA</b>		
Analog Output	0 - 1 Volt	
Gain Settings	1 to 8	
Filter	Moving Average (0 - 0.5 - 1 - 2 -....- 10)	
Signal Amplification	SAGA (SEDEX Automated Gain Adjustment)	
Data Rate	10Hz	
<b>EXTERNAL REQUIREMENTS</b>		
Power	100 V to 240 V (50 Hz/60 Hz)	
Gas Supply	Nitrogen or Air 2.0bar (less than 3 L/min)	
Dimensions	250 mm (10in) W, 330 mm (13in) H, 530 mm (21in) D	
Weight	15 kg (33lb)	



## Refractive Index

The RI 2000 Differential Refractive Index Detector series offers the sensitivity, stability and reproducibility required for optimal RI detection.

The thermal isolated optic with a countercurrent heat exchanger and with its programmable temperature control, results in an extremely stable baseline and an optimal Signal / Noise ratio.



Cat. No	HP-RI2000P
Flow range	1.0-50.0 mL/min
Flow Cell Volume	7 µL/5 °C angle
Pressure Tolerance of Flow Cell	6 kg/cm <sup>2</sup>
Dead Volume	Into cell 88 or 353 µL
Liner Range	0-20000 µRIU
Noise	10×10 <sup>-8</sup>

## FLEXA™ Series Fraction Collector

- ▲ Stand-alone operation
- ▲ Time/Volume based triggering
- ▲ Choice of forced collection or waste vending
- ▲ Highlighted collecting position
- ▲ Customized definition of coordinates



Cat. No	FL-C100B	FL-C500
Compatibility	HP series	HP series
Max Flow Rate	100 mL/min	1000 mL/min
Collecting Configuration	Preset for 13 mm, 15 mm, 18 mm and 25 mm tubes; self-configuration program available test tube.	
Communication Port	RS 232	RS 232
Collection Mode	Peak (threshold and slop), Manual, All, Windows (threshold and time)	

## ATS Series Auto-sampler

- ▲ Auto wash
- ▲ Continuous sampling (up to a thousand times)
- ▲ Good compatibility (Compatible with Agela High Pressure also Middle Pressure purification System. With an individual software, also could be used with other brand together.)

ATS Auto-Sampler is an efficient product for sample injection, which provides fast and reliable purification by connecting with a prep LC system.



### Compatible with MP series

Cat. No	ATS-051-M10	ATS-051-M25
Single Sample Size	1-10 mL	5-25 mL
Sample Loop	5 mL	20 mL
Pipeline ID	1/8 inch	1/8 inch
Sample Channel	5	5
Cleaning Channel	Automatic/Manual	Automatic/Manual
Communication Port	RS-232	RS-232

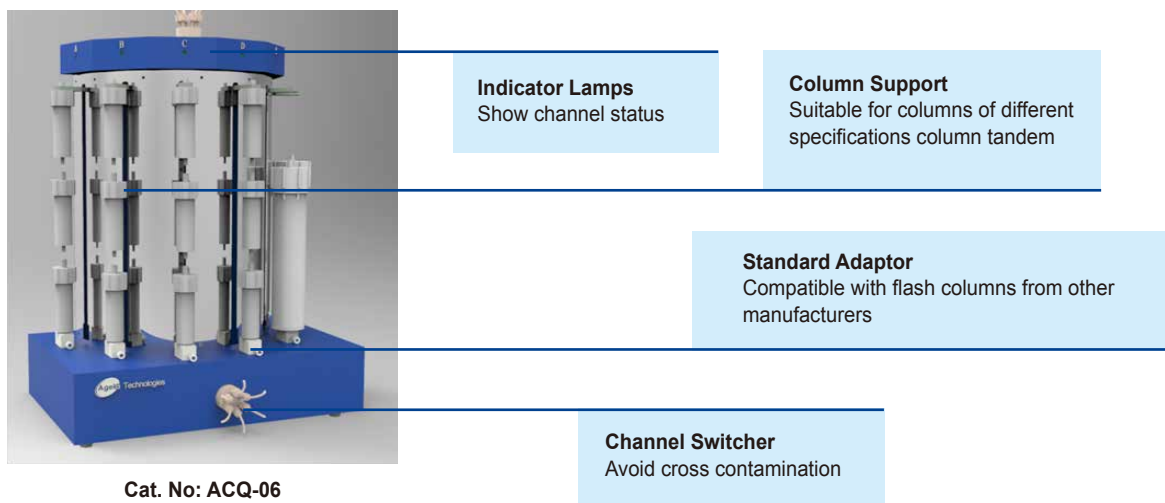
### Compatible with HP series

Cat. No	ATS-051-H10	ATS-051-H25
Single Sample Size	1-10 mL	5-25 mL
Sample Loop	2 mL	20 mL
Pipeline ID	1/16 inch	1/16 inch
Sample Channel	5	5
Cleaning Channel	Automatic/Manual	Automatic/Manual
Communication Port	RS-232	RS-232

## ACQ-06 Column Switcher

ACQ-06 column switcher allows chemists to switch automatically from one column to another, without evaporating solvents. It also offers multi-stationary phases for a complete chromatography solution. Six channels are available and could be programmed via software.

- ▲ Time Saving  
Start a new run by switching to a new column
- ▲ Efficient Purification  
Further purification can be achieved through tandemed columns
- ▲ Good Compatibility  
Compatible with Agela High Pressure also Middle Pressure purification System. With an individual software, also could be used with other brand together



### Accessories

Type	4 g	12 g	20 g	40 g	80 g	120 g	330 g
Columns/Single Channel	3	3	2	2	1	1	1
Channel	6	6	6	6	6	6	6

# LC-10F High Performance Liquid Chromatography

LC-10F HPLC system applies the Electrical Dump Control technique to minimize the pulsation, and ensures the sensitivity. High flow rate precision are achieved through a multi-point calibration curve; Dual-channel design for dual wavelength provide excellent detection.

## Specification

Cat. No	LC-10F
<b>PUMP</b>	
Flow Rate Range	0.001~9.999 mL/min
Flow Precision	±0.5 %
Flow Repeatability	RSD≤0.1 %
Pressure Precision	≤0.5 %
Max System Pressure	≤42 Mpa
<b>DETECTOR</b>	
Wavelength Range	200-400/200-800 nm
Lamp	Deuterium lamp, Tungsten lamp is optional
Wavelength Precision	±1 nm
Wavelength Repeatability	0.2 nm
S/N	±0.75×10 <sup>-5</sup> AU, 254nm, TC=1S
Baseline Drift	1.5×10 <sup>-4</sup> AU, 254 nm



## Column Oven



Cat. No	CC-100	MODEL9340	CC-M-500
Heat temperature	Ambient +5°C-60 °C	Ambient +5°C-60 °C	5°C-80 °C
Control precision	±1 °C	±1 °C	±1 °C
Column capacity	4.6 × 250 mm, Max 1 columns	One of 4.6 × 250 mm analytical column, and 30 × 250 mm preparation column	4.6 × 250 mm, Max 2 columns