Ионные источники ЖХ/МС

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Россия (495)268-04-70
Киргизия (996)312-96-26-47
Казахстан (7172)727-132

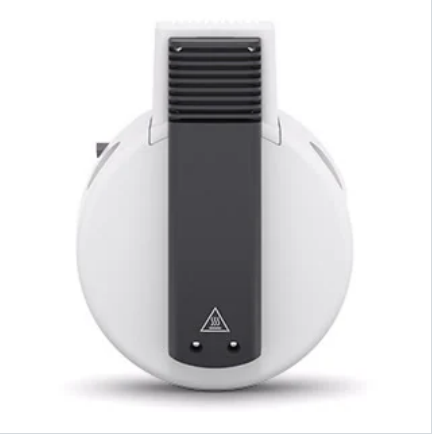
afr@nt-rt.ru || https://agilent.nt-rt.ru/

LC/MS Ion Sources

Jet Stream Technology Ion Source (AJS)

The thermal gradient focusing technology used in the Agilent Jet Stream high sensitivity ion source extends the sensitivity of electrospray ionization for a wide array of applications and flow rates.

This exclusive technology for high-sensitivity MS uses superheated nitrogen to improve droplet desolvation and ion generation, for a stronger signal and reduced noise. It offers the highest sensitivity for most analytes, and a response that is five-fold higher or more relative to standard electrospray ionization.



Part Number	Description
G1958B	Agilent Jet Stream Source (standalone ion source)
G1958C	Agilent Jet Stream Source (AJS) and enablement kit for Ultivo
G1959A	Dual spray JetStream Upgrade

Features

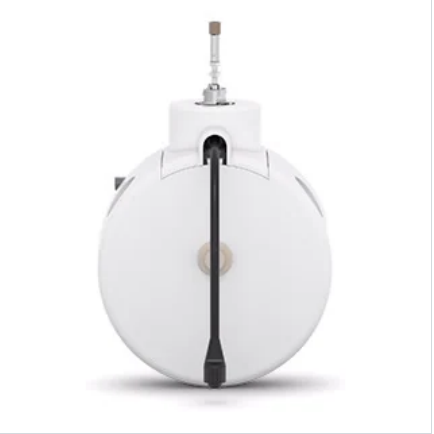
- Agilent Jet Stream technology significantly enhances sensitivity relative to standard electrospray ionization
- Superheated nitrogen sheath gas confines the nebulizer spray and improves desolvation of ions
- Improved ion generation and sampling efficiencies for increased signals and noise reduction
- Five-to-tenfold improvement in sensitivity over ESI at conventional flowrates (50 µL/min to 2.5 mL/min)
- Consistent operating parameters across a wide range of flow rates reduces the need for re-optimization

LC/MS Ion Sources

Atmospheric Pressure Chemical Ionization Source (APCI)

Atmospheric pressure chemical ionization (APCI) is a popular complementary soft ionization technique to electrospray. It is commonly used to analyze small polar and nonpolar compounds that are ionized poorly by electrospray but do well in chemical ionization, which generates singly charged ions at higher temperatures.

The Agilent APCI source is sensitive yet extremely robust, thanks to an orthogonal spray geometry and counterflow drying gas. Like the ESI source, it can generate both positive and negative ions, and ion polarity can be switched on a spectrum-to-spectrum basis.



Part Number	Description
G1947B	Atmospheric Pressure Chemical Ionization (APCI) Source

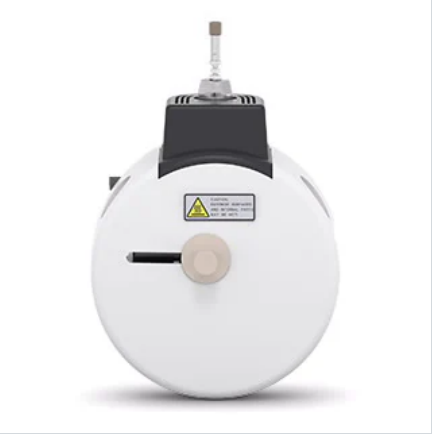
Features

- Complementary to electrospray ionization
- Suitable for a wide range of compounds, including less polar and nonpolar molecules
- Generates primarily singly charged ions and operates at higher temperatures
- Performance scales favorably for larger columns and higher LC flow rates as the response increases with the total mass flow

LC/MS Ion Sources

Multimode Source

The Agilent multimode source is a breakthrough in LC/MS technology, delivering simultaneous electrospray ionization (ESI) and atmospheric pressure chemical ionization (APCI) with high ionization efficiency. This flexible source does not require you to make a compromise between information content or sensitivity and provides added coverage across a wider range of analyte properties. It maximizes throughput by eliminating the need to run samples twice to ensure all components are identified.



Part Number	Description
G1978B	Multimode Ionization (MMI)

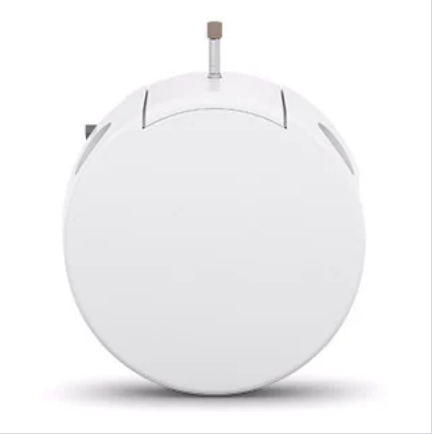
Features

- The only ion source capable of simultaneously generating ions by electrospray (ESI) and atmospheric pressure chemical ionization (APCI)
- Operates in ESI+APCI simultaneously, ESI-only, or APCI-only mode
- Identifies very diverse compounds in a single run

LC/MS Ion Sources

Electrospray (ESI) Source

Electrospray ionization (ESI) is a mainstay of LC/MS that can be used to analyze large and small analytes. The Agilent electrospray ion source uses patented orthogonal nebulization and a heated counterflow drying gas system to achieve excellent sensitivity and robust, reliable performance. A dual-nebulizer ESI source is available for TOF and Q-TOF instruments, with the second nebulizer dedicated to the continuous introduction of a reference mass to ensure superior mass accuracy.



Part Number	Description
G1948B	Electrospray Ionization (ESI) Source
G3251B	G3251B - Dual Sprayer ESI Source

Features

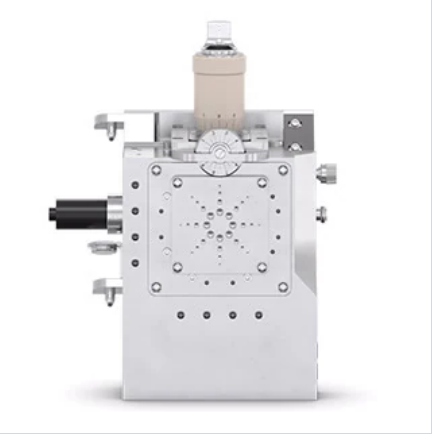
- Well suited for analysis of biological macromolecules such as proteins and peptides, as well as for smaller, more polar molecules
- Capable of generating multiply charged ions while operating at relatively low temperatures
- Concentration-sensitive technique enables use of more concentrated samples for improved sensitivity, allowing lower flow rates in sample-limited applications
- Available for standard flow, capillary flow, and nanoflow regimes

LC/MS Ion Sources

Nanospray Source

The Agilent nanospray ESI source is a flexible solution for laboratories running low-flow LC/MS applications. The nanospray source allows both commercially available and custom nanoflow columns to be used with Agilent LC/MS systems.

The spray position can be configured in orthogonal, direct, or direct off-axis orientations, to best suit your application. Visualize your spray stability with built-in video capture displayed on the control PC monitor. Reference mass solution can also be introduced to ensure the most accurate performance on the Agilent TOF and Q-TOF instruments.



Part Number	Description
+ G1992A	Nano ESI source

Features

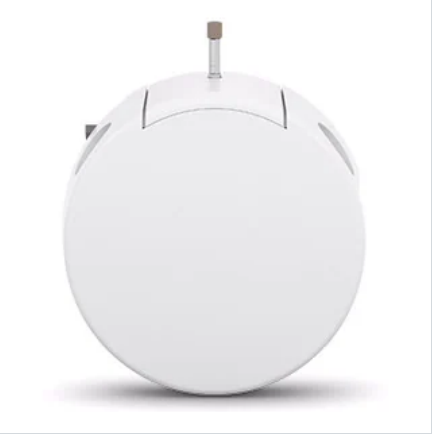
- Utmost sensitivity for small sample quantities analyzed in low-flow LC/MS applications
- Supports custom and commercially available nanoflow columns
- Offers three choices of spray orientation, namely orthogonal, direct on-axis, and direct off-axis
- Built-in video camera displays the spray in real time on the control PC

LC/MS Ion Sources

Capillary Electrospray Source

The capillary electrospray source features a triple coaxial nebulizer-sheath flow interface for use with capillary electrophoresis (CE) or capillary LC/MS. For researchers working with limited sample volumes, the microliter-per-minute flow rates of capillary LC/MS often result in better sensitivity, enabled by the easy, reliable operation of the nebulizer for capillary LC/MS.

Capillary electrophoresis-mass spectrometry (CE/MS) is another powerful technique which combines the high separation efficiency of CE and chemical identification of MS. It has high resolving power and sensitivity, requires minimal sample quantities and can analyze samples with high throughput. The Agilent electrospray ion source and the Jet Stream source can be equipped with the triple coaxial nebulizer-sheath flow interface for easy interfacing to any capillary electrophoresis system, without further modification of the source.



Features

- Triple coaxial nebulizer-sheath flow interface for use with capillary electrophoresis (CE) or capillary LC/MS
- Can be used on Agilent ESI and JetStream ion sources without modification
- Retains benefits of orthogonal nebulization and heated counterflow drying gas
- Allows polarity switching

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Россия (495)268-04-70
Киргизия (996)312-96-26-47
Казахстан (7172)727-132

afr@nt-rt.ru || https://agilent.nt-rt.ru/