

## Technical Specifications

### Refrigerated Reagent Organiser

For storing all reagents, buffers and wash solutions.

- Front side operated
- Special valves for applying inert gas for oxygen-free storage
- Integrated cooling
- Transparent cover is equipped on top to avoid dust and for easy observation of buffer consumption

### Solvent Delivery System

- Only inert materials come in contact with buffer solutions & samples (PEEK or PTFE)
- Quaternary gradient pump with two-plunger for smooth eluent delivery
- Dual plunger pump with special design for low pulsation (less than 1 %)
- Flow rate of 0.000 to 9.999 ml/min
- Flow rate stability with RSD<0.1%
- Maximum pressure up to 400 bar (6000 PSI)
- Integrated 4-channel vacuum degasser
- Battery buffered programs stored for the amino acid determination (hydrolysates and physiological fluids)
- More than 100 programmable gradient steps with a resolution of 0.1%
- Graphic display of gradient profile A, B, C, and D
- Programmable mixing cycle for the buffer solution
- Programmable flushing procedure
- Extended diagnostic features (e.g. high pressure control, low pressure control)

### Autosamplers

- For automatic injection of samples. All parts which come in contact with liquids are chemically inert and biocompatible (PEEK or PTFE)
- Large graphical display and keyboard for easy control
- Programmable washing procedure with selectable volumes
- Programmable port for purging

<b>Injection mode</b>	Loop overflow mode or Variable sample dosage
<b>Injection volume</b>	0-500 µL, 1 µL increments
<b>Reproducibility</b>	RSD<1% upon injection of 10 µL variable volume
<b>Carry over</b>	<0.01%
<b>Temperature control</b>	Temperature controlled sample compartment (5 - 70° C)
<b>Sampling</b>	Operating in x, y and z-axis
<b>Sample rack</b>	Two sample racks, 120 vials capacity

<b>Interface</b>	Large graphical display and keyboard
------------------	--------------------------------------

### Analytical Specifications

<b>Analysis time</b>	Hydrolysate sample: 30 - 50 min Physiological sample: 70 - 180 min
<b>Sensitivity</b>	<8 pMol (All) <2.5 pMolASP, 3 pMol)
<b>Reproducibility</b>	Qualitative: - RSD<0.5% (All Amino Acids) - RSD<0.1% (Arg)
<b>Resolution</b>	Hydrolysate sample - >1.2 (All) or >3.3 (Average), 150 mm column - >1.4 (All) or >3.5 (Average), 175 mm column Free amino acids - >1.0 (All) or >2.5 (Average) Bioamine - >1.2 (All) or >3.0 (Average)

### Amino Acid Reaction Module

- Integrated 2-plunger reagent dosing pump with adjustable flow rate (0.01 to 2.0 ml/min)
- Built-in dual filter photometer (440 and 570 nm) with constant signal output and signal summary option
- Programmable signal offset
- Three different risetimes selectable
- Temperature controlled column oven (20 to 99° C ±1° C) with active cooling capability
- Temperature controlled post-column derivatisation reactor (up to 180° C ±1° C)
- Automatic valve for coil flushing
- Display of the actual system pressure
- Safety features (e.g. leakage of reactor and column, high pressure)

### Software

- Complete control of Gradient Program, Column & Reactor Temperature
- Programmable Sample Sequence with individual run times, gradient and temperature profiles
- Automatic usage control of Buffer & Reagent solutions
- Emergency-Program (SOS) feature in case of pressure errors
- Manual control of each single unit

# Artemis 6000 AAA

## Installation Parameters

Dimension	720mmx580mmx880mm (W X D X H)
Weight	110kg
Power Supply	215V – 240V
Power Consumption	Max 750W
Environment	Humidity: <90% (Relative) Temperature: 5°C to 35°C
N2 gas supply	Purity >99.99%, Output pressure 1-3 bar (0.1Mpa – 0.3 Mpa)

## Consumables

- Ready-made buffer solutions (each lot tested individually)
- Separation columns for a variety of applications with long term stability
- Ready-made Ninhydrin solution
- A variety of standard solutions



[scioninstruments.com](http://scioninstruments.com)

Tel: +44 (0)1506 300200

Email: [sales-eu@scioninstruments.com](mailto:sales-eu@scioninstruments.com)

**SCION Instruments**

HQ, Livingston Business Centre,  
Kirkton South Road, West Lothian,  
EH54 7FA, Livingston, United Kingdom

**SCION Instruments NL BV**

Amundsenweg 22-24,  
4462 GP Goes,  
Netherlands