



Technical Specifications

Atellica NEPH 630 System

Smart.
Simple.
Secure.

siemens-healthineers.com/atellica-neph-630

The Atellica® NEPH 630 System* is a dedicated, mid-volume, random-access nephelometric system that simplifies lab operations by offering the broadest menu of protein tests on different sample types, including cerebrospinal fluid, serum, urine, and plasma.† It streamlines workflows and reporting with highly intelligent software and an advanced QC interface, while enabling secure, smart, and simple testing.

Product specifications

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|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Measuring principle | Nephelometry; measurement of scattered light intensity at a fixed angle of 13–24° |
| Methods | More than 70 programmed assay protocols |
| Sample throughput | Effective: approximately 65 tests/hour, depending on the assay mix Nominal: 100 tests/hour |
| Analysis method | Fixed-time kinetics, end-point measurement, VLin integral |
| Calibration | Multi-point calibration |
| Reagent rotor | Segments for 3 control serum vials Segments for 2 reagent vials |
| Sample rotor | Segments for 15 sample tubes Segments for 7 standard vials |
| Dilution unit | 1 frame for max. 96 dilution cups |
| Size of sample tubes | Diameter: 11–16 mm Height: 65–100 mm For pediatric samples: Conical microtubes with a maximum filling volume of 1.5 mL |

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Bar-code reader | Automatic reading of different bar-code types: 2/5 interleaved, Codabar, Code 39, Code 93, Code 128 |
| Reagent volume | Average consumption: 40 µL per test |
| Sample dilution | 1:1 to 1:32,000 |
| Level detection | For samples, standards, controls, reagents, and container for system liquid and waste |
| Reaction cuvettes | Capacity: 90 disposable cuvettes |
| Measuring temperature | 37°C, ±1.5°C |
| Light source | Infrared high-performance LED |
| Wavelength | 840 nm, ±10 nm |
| Detector | Photodiode with integrated preamplifier |
| Connectivity† | Laboratory information system (download mode, host query mode, ASTM) Smart Remote Services Atellica Process Manager‡ Atellica Data Manager |

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Instrument weight and dimensions

| | |
|-----------------------------------------------------------------------|---------------------------------------------------------|
| Analyzer dimensions (W x H x D) | 107 x 60 (lids closed) x 63 cm (42.1 x 23.6 x 24.8 in.) |
| Computer and monitor dimensions (W x H x D including keyboard) | Approx. 36 x 46 x 55 cm (14.25 x 18 x 21.5 in.)** |
| Printer† dimensions (W x H x D) | Approx. 41 x 27 x 37 cm (16 x 10.5 x 14.5 in.)** |
| Analyzer weight | 115 kg (254 lb) |
| Computer and monitor weight | Approx. 14 kg (31 lb)** |
| Printer weight | Approx. 7 kg (16.1 lb)** |

Room environment

| | |
|-------------------------------|----------------------------------------------------------------------------|
| Ambient temperature | 18–32°C (64–89°F) |
| Relative humidity | <85% (noncondensing) |
| Average thermal output | 404 W in operating mode |
| Water requirements | Deionized water NCCLS Type 2 Microbial count must not exceed 100 CFU/mL |

Electrical installation requirements

| | |
|--------------------------|------------------------------------------------------------------------------|
| Voltage | 100 V rating: 90–110 V 120 V rating: 108–132 V 230 V rating: 207–253 V |
| Power consumption | 500 VA (operating mode) |
| Host interfacing | Download mode, host-query mode, ASTM |
| Ports | 1 10-Base-T/Base TX Ethernet RJ45 1 serial (DB-9) (male) |

Computer and printer

| | |
|-----------------|------------------------|
| Terminal | WINDOWS computer |
| Printer† | Standard laser printer |

* Not available for sale in the U.S. Product availability varies by country. Please contact your local representative for availability.

† As of February 2022.

‡ Sold separately.

§ Reagent efficiency report is not supported on the Atellica NEPH 630 System.

** Depending on model.



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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

Legal Manufacturer

Siemens Healthcare Diagnostics
Products GmbH
Laboratory Diagnostics
Emil-von-Behring-Strasse 76
35041 Marburg, Germany