

Agilent NovoCyte Flow Cytometers

Site Preparation Checklist

Thank you for purchasing an Agilent *instrument*. To get you started and to assure a successful and timely installation, please refer to this specification or set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an information guide and checklist prepared for you that outlines the supplies, consumables, space, and utility requirements for your equipment.

Introduction

Customer Responsibilities

Ensure that your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The environmental conditions for the site as well as laboratory gases, plumbing and extraction.
- The power requirements related to the product (e.g., number and location of electrical outlets).
- The required operating supplies necessary for the product and installation.
- If Agilent is delivering Installation and Familiarization services, users of the instrument should be present throughout these services. Otherwise, they will miss important operational, maintenance, and safety information.
- Please consult the Special Requirements section for other product-specific information.

Customer Information

- 1 If you have questions or problems in providing anything described as a Customer Responsibility, please contact your local Agilent or partner support service organization for assistance before the scheduled installation. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your site.
- 2 Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
- 3 Other optional services such as extra training, compliance services and consultation for user-specific applications may also be provided at the time of installation. Please discuss with your Agilent Sales representative before the installation is scheduled.

Site Preparation

Dimensions and Weight

Identify the laboratory bench space before your instrument arrives based on the following table.

Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	Cm	In	cm	in	cm	in
NovoCyte Flow Cytometer	39.0	86.0	39.0	15.4	45.0	17.7	60.0	23.6
NovoCyte with NovoSampler	46.0	101.4	39.0	15.4	45.0	17.7	69.0	27.2
NovoCyte with NovoSampler Pro	48.0	105.8	39.0	15.4	45.0	17.7	75.0	29.5
NovoCyte Advanteon Flow Cytometer	39.0	86.0	48.0	18.8	46.0	18.1	62.0	24.4
NovoCyte Advanteon with NovoSampler Q	52.0	115.0	48.0	18.8	46.0	18.1	85.0	33.5
NovoCyte Quanteon Flow Cytometer	47.0	104.0	48.0	18.8	46.0	18.1	62.0	24.4
NovoCyte Quanteon with NovoSampler Q	60.0	133.0	48.0	18.8	46.0	18.1	85.0	33.5
NovoCyte Penteon Flow Cytometer	49.5	109.2	48.0	18.8	46.0	18.1	62.0	24.4
NovoCyte Penteon with NovoSampler Q	62.5	137.8	48.0	18.8	46.0	18.1	85.0	33.5
NovoCyte Opteon Spectral Flow Cytometer	80.0	176.0	48.0	18.8	54.0	21.2	86.0	33.8
NovoCyte Opteon with NovoSampler S	95.0	209.0	48.0	18.8	60.0	23.6	110.0	43.3
NovoCyte Fluidic Station I	6.0	13.2	42.0	16.5	29.0	11.4	25.0	9.8
NovoCyte Fluidic Station II	6.4	14.1	42.0	16.5	25.0	9.8	29.0	11.4

NovoCyte Fluidic Station S	6.4	14.1	13.0	5.1	34.0	13.4	33.0	13.0
NovoCyte Fluidics Cart	25.0	55.1	73.5	28.9	56.0	22.0	48.0	18.9
NovoCyte Workstation (NovoCyte/Quanteon/Penteon/Advanteon)	5.30	11.69	29.0	11.42	29.80	11.53	9.26	3.65
NovoCyte Workstation (Opteon)	8.5	18.7	37.3	14.7	42.0	16.5	17.3	6.8
LED Monitor (NovoCyte/Quanteon/Penteon/Advanteon)	5.6	12.3	49.6	19.5	18.0	7.1	53.8	21.2
LED Monitor (Opteon)	6.6	14.6	53.5	21.0	18.5	7.3	61.1	24.1

NOTICE

A minimum space of 150 cm (W) × 80 cm (D) × 90 cm (H) is required to install the NovoCyte/Advanteon/Quanteon/Penteon instrument and NovoCyte Fluidics Station (I/II). A minimum space of 160 cm (W) × 90 cm (D) × 90 cm (H) is required to install the NovoCyte Opteon instrument and NovoCyte Fluidics Station S. A minimum space of 65 cm (W) × 70 cm (D) × 85 cm (H) is required to install the NovoCyte Fluidics Cart. Make sure there is at least 20 cm distance between the NovoCyte instrument and the adjacent object (i.e., walls). Leave at least 10 cm distance between the instrument and the fluidics station.

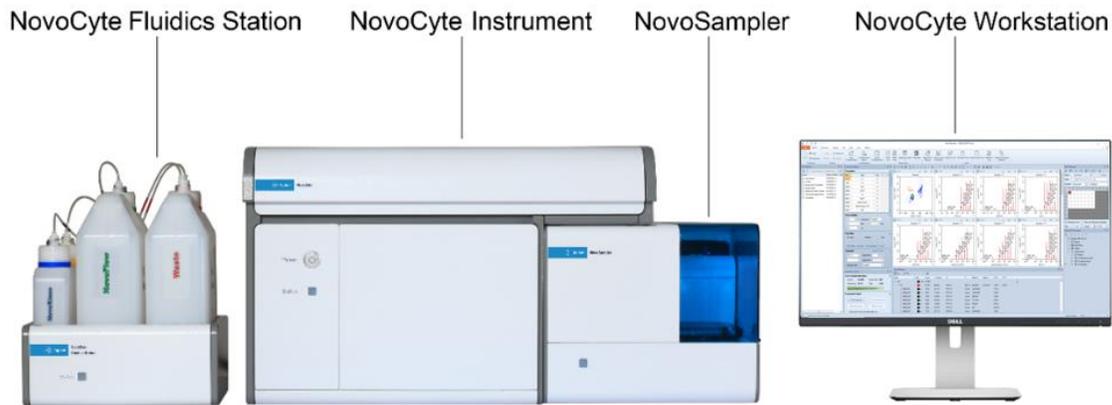


Figure 1 NovoCyte Flow Cytometer with NovoSampler, Fluidic Station I and monitor

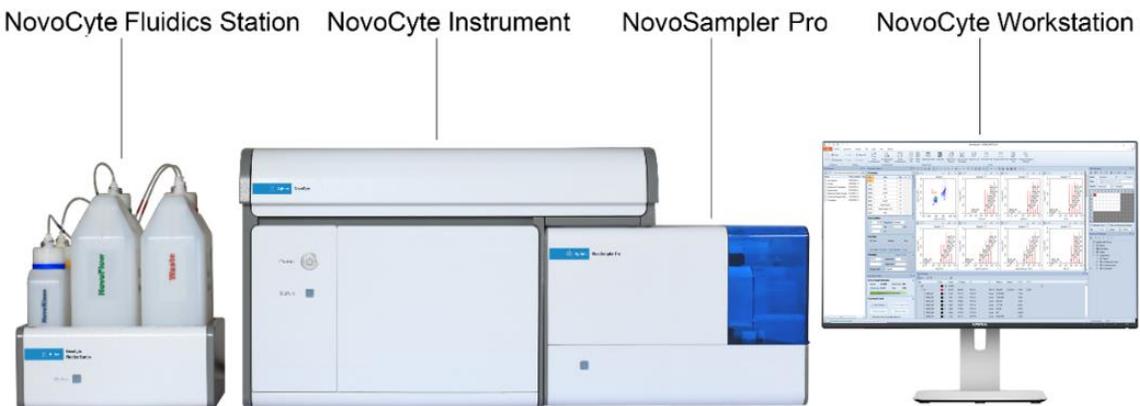


Figure 2 NovoCyte Flow Cytometer with NovoSampler Pro, Fluidic Station I and monitor

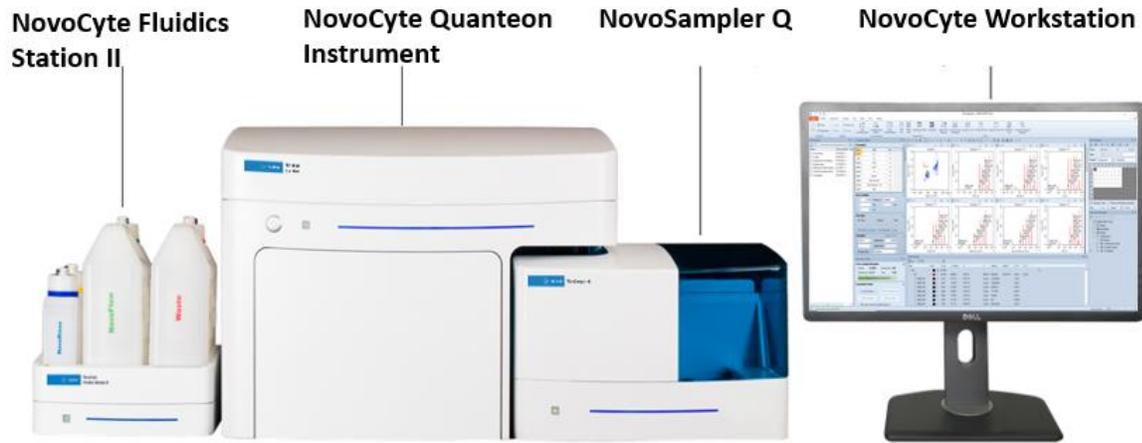


Figure 3 NovoCyte Quanteon with NovoSampler Q, Fluidic Station II, and monitor

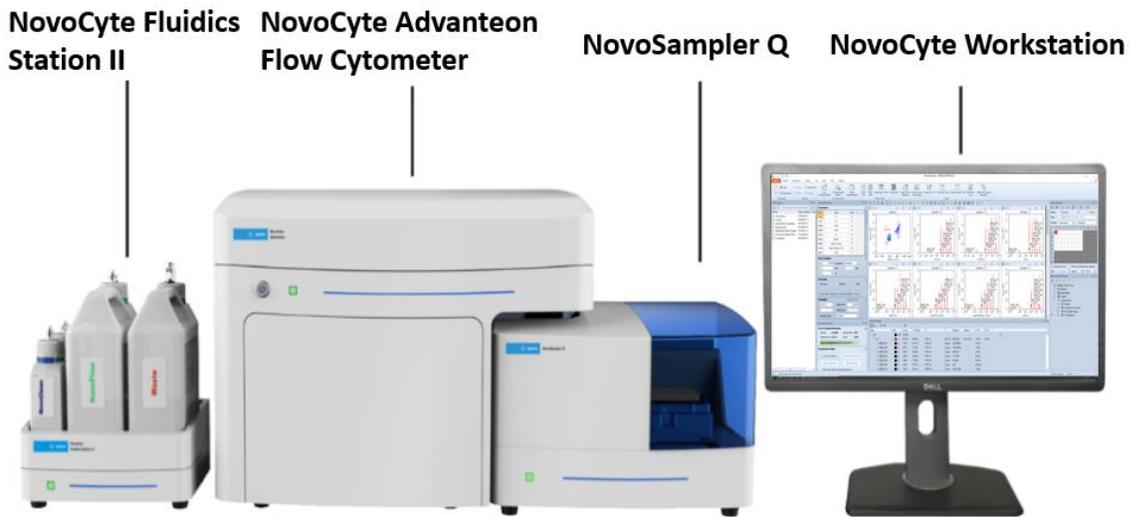


Figure 4 NovoCyte Advanteon with NovoSampler Q, Fluidic Station II, and monitor

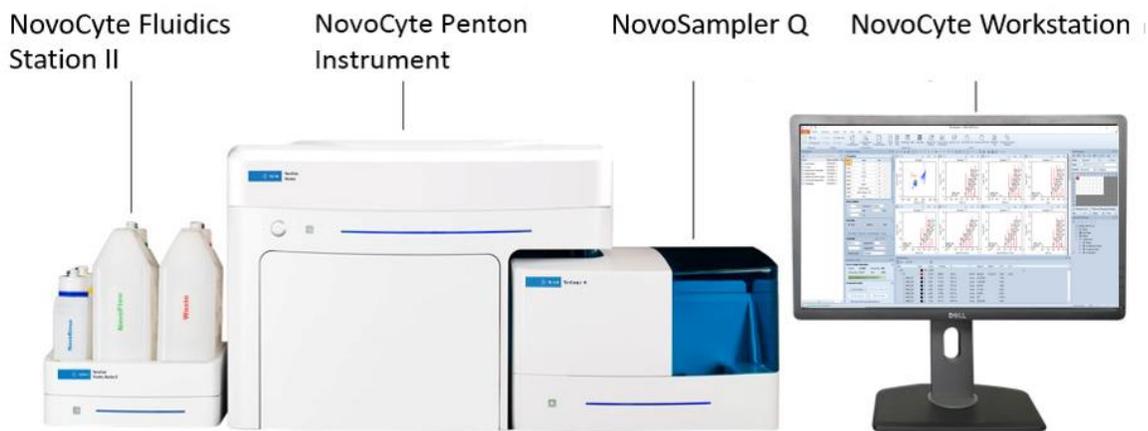


Figure 5 NovoCyte Penton with NovoSampler Q, Fluidic Station II, and monitor

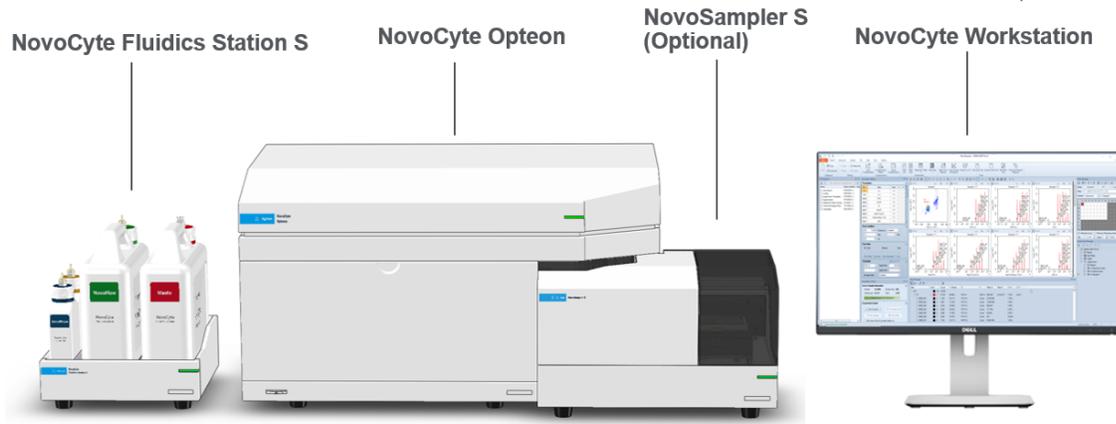


Figure 6 NovoCyt Opteon with NovoSampler S, Fluidic Station S, and monitor



Figure 7 NovoCyt workstation with monitor, keyboard and mouse (for NovoCyt, NovoCyt Advanteon, NovoCyt Quanteon, NovoCyt Penteon)



Figure 8 NovoCyt workstation with monitor, keyboard and mouse (for NovoCyt Opteon)



Figure 9 NovoCyte Fluidics Cart

Environmental Conditions

Operating your instrument within the recommended temperature ranges ensures optimum instrument performance and lifetime.

Special notes

- 1 Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations.
- 2 Please install and operate the instrument with temperature of 15-32°C, and maximum relative humidity of 80%. Store the instrument with temperature of 1-40°C, and maximum relative humidity of 80%. Failure to follow the environmental requirements may reduce the operating lifetime or cause damage to the instruments.

Power Consumption

Special notes

- 1 If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
- 2 Three electrical outlets or a power strip with at least three outlets is needed to operate the instrument.
- 3 A battery backed-up stable power supply is recommended but not required.

Instrument Description	Line Voltage and frequency (V, Hz)	Maximum Power Consumption (W)
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NovoCyte Flow Cytometer	100-240 VAC, 50-60 Hz	90 W
NovoCyte Quanteon /Advanteon /Penteon Flow Cytometer	100-240 VAC, 50-60 Hz	200 W
NovoCyte Opteon Spectral Flow Cytometer	100-240 VAC, 50-60 Hz	220 W
NovoCyte Workstation	90-264 VAC, 47-63 Hz	300 W
Monitor	100-240 VAC, 50-60 Hz	74 W

Required Operating Supplies by Customer for Installation

Special notes

- Download the Essential Chromatography and Spectroscopy Supplies Catalogs for a complete overview about available supplies for your new and existing Agilent Instruments
<https://www.agilent.com/en-us/products/lab-supplies>

Item Description	Recommended Quantity	Comment
Laboratory gloves	1~2	Used for installation and QC run
70% Ethanol or isopropanol (solution, spray, or wipes)	1	Used for instrument surface cleaning and "Debubble" on-demand cleaning of the system (NovoCyte Flow Cytometer only)
Milli-Q or 0.2 µm filtered DI water	3 Liters	Used for NovoFlow
12 X 75 mm tube	24 or 40	Used for Calibration of NovoSampler and NovoSampler Pro (24); or NovoSampler Q (40), or NovoSampler S (40)
96-well sample plate (U-, V- or flat-bottom)	1~3	Customer can provide any future 96-well plates expected for future analysis on the flow cytometer
Common laboratory pipet (1000 ul)	1	Used for running QC particles
1000 ul pipet tips	1~2	

Special Requirements

Equipment positioning on the bench.

NOTICE

The fluidic station is required to be placed on the same level bench space as the instrument. Lower or higher placement is not recommended.

NOTICE

The Fluidic Cart is required to be placed underneath the bench space, where no bending of the tubing and cable is allowed.