

NANT 001 Bioreactor System

Technical Specifications

Working Volumes

Cell culture chamber	125 mL – 190 mL
Media bag	Up to 1 L
Buffer bag	Up to 1 L
Waste bag	Up to 2 L
Detaching agent bags (2x)	Up to 100 mL
Harvesting bottle	Up to 250 mL

Materials

Cell culture chamber	Polystyrene
Bags	EVA, EVOH
Tubing (fluid path)	Tygon [®]
Tubing (pump segment)	Pharmed [®] BPT
Harvesting bottle	Polypropylene
Gas filters	Nylon

Dimensions

Cell culture chamber surface area	636 cm ²
Bioreactor length	580 mm (22.8")
Bioreactor depth	776 mm (30.6")
Bioreactor height	500 mm (19.7")
Bioreactor weight	63 kg (138.9 lbs)

Cartridge Sterility

β-irradiation dose	25 kGy
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Gas filters

Cell culture chamber and harvesting bottle vent ports, CO ₂ inlet port	0.22 μm, hydrophobic
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Traceability

Barcode-based User and Cartridge identification

Remote Access

Web-app based access to process parameters and culture microscope images

Cell Culture Report Information

Automated recording of user-dependent operations, process parameters (temperature, pH), error log, sampling log, cell confluency graph

Sampling ports	Needle-free, swabable luer lock valves
Cartridge Sections Connections	Genderless sterile connectors
Operating Temperature	18°C - 28°C (64°F - 82°F)
Pump flow rate	1-100 mL/min
Gas control	Optional gas mixer for 5% CO ₂ input
User Interface	7" resistive touchscreen
Connectivity	Wireless remote process control Ethernet port
Power Supply	350 W, 100-240 VAC, 50/60 Hz

ORDERING DETAILS

Item	Catalogue Number
NANT 001 Bioreactor	N1B-01
NANT 001 Cartridge	N1C-01

ENQUIRIES AND SERVICE

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