

NanoAssemblr® Ignite™ and Ignite+™

Specifications



Simple scalability

The NanoAssemblr platform models unit operations and scalable process parameters across all systems, allowing for straightforward scale-up towards clinical development and commercial manufacture.

Fast, intuitive workflows

Ignite lowers the barrier to developing genomic medicines by providing a simple, fast and easy-to-use platform with familiar workflows, easing technology transfer and simplifying scale-up.

Reproducibility and reliability

Consistent microfluidic design ensures that environmental, user and batch variability is negligible, providing confidence and support for your drug development activities.



| | | |
|---------------------------------|--|--|
| Electrical | 100 - 240 VAC, 4 A | |
| Environmental Conditions | Temperature: 15 - 35 °C Humidity: 25 - 65% (non-condensing) Pressure: 70 - 106 kPa | |
| Dimension (WxDxH) | Instrument: 38 x 34 x 38 cm Installation: 40 x 44 x 73 cm | |
| Weight | 16 kg | |
| Syringe Compatibility | BD Luer-Lok™ or Slip Tip Syringes (centered tip): 1*, 3, 5, 10, 20, 30 mL B. Braun™ Injekt® Solo Luer Cone or Luer Lock Cone Syringes (centered tip): 1, 2**, 5, 10, 20, 30 mL B. Braun™ Omnifix™ Solo Luer Cone or Luer Lock Cone Syringes (centered tip): 1, 3, 5, 10, 20, 30 mL Terumo® Hypodermic Luer Lock Tip or Luer Slip Tip Syringes (centered tip): 1, 2.5**, 3, 5, 10, 20, 30 mL | |
| | *: Luer-lok variety only **: Not compatible with heating accessories. Must be used in conjunction with syringe extenders for optimal performance in non-heated cases | |
| Waste Collection | Waste: 15 mL Falcon Conical Tube | |
| Sample Collection | Ignite Sample Arms (Black): 15 mL or 50 mL Falcon Conical Tube | Ignite+ Sample Arms (Grey): 15 mL or 50 mL Falcon Conical Tube or 100mL Fisher Scientific Nalgene Round Bottom Centrifuge Tube |
| Cartridge | Designed for single-use microfluidic cartridges | |
| | Ignite: Classic, NxGen and NxGen Dilution | Ignite+: Classic, NxGen, NxGen Dilution, NxGen 500 and NxGen 500D |
| Formulation | Ignite: Flow Rate per Channel: 0.1 mL/min up to 20 mL/min on C and R Channels, 48 mL/min on L Channel Total Formulation Volume: up to 20 mL non-diluted, and up to 50 mL diluted C:R Flow Rate Ratio: up to 10:1 | Ignite+: Flow Rate per Channel: 0.1 mL/min up to 200 mL/min on C and R Channels, 440 mL/min on L Channel Total Formulation Volume: up to 60 mL non-diluted, and up to 90 mL diluted C:R Flow Rate Ratio: up to 10:1 |
| | Note: C, R and L channels are labelled on the instrument | |
| Heating | Ignite: Up to 75 °C | Ignite+: Up to 65 °C |
| | Note: Not compatible with Terumo 2.5 ml and B. Braun Injekt 2 mL syringes | |

Ordering Information

| PRODUCT | | PRODUCT CODE | INCLUDES |
|---|---|--------------|--|
|  | NanoAssemblr Ignite Instrument | NIN0001 | 1 Instrument 1 Power supply 2 Sample switch arms 2 Cartridge adapters 1 One year warranty |
|  | NanoAssemblr Ignite+ Instrument | 1001413 | 1 Instrument 1 Power supply 3 Sample switch arms 2 Cartridge adapters 1 One year warranty |
|  | NanoAssemblr Ignite+ Upgrade Kit | 1001409 | All components required to upgrade an Ignite to an Ignite+. Includes on-site installation by a Precision NanoSystems-certified service technician. |
|  | NanoAssemblr Ignite Cartridges - NxGen - 100 Pack | NIN0061 | 100 NxGen Cartridges |
| | NanoAssemblr Ignite Cartridges - NxGen - 200 Pack | NIN0062 | 200 NxGen Cartridges |
|  | NanoAssemblr Ignite Cartridges - NxGen Dilution - 50 Pack | NIN0063 | 50 NxGen Cartridges with Dilution |
| | NanoAssemblr Ignite Cartridges - NxGen Dilution - 100 Pack | NIN0064 | 100 NxGen Cartridges with Dilution |
|  | NanoAssemblr Ignite+ Cartridges - NxGen 500 - 50 Pack | 1001397 | 50 NxGen 500 Cartridges |
| | NanoAssemblr Ignite+ Cartridges - NxGen 500 - 100 Pack | 1001398 | 100 NxGen 500 Cartridges |
|  | NanoAssemblr Ignite+ Cartridges - NxGen™ 500D - 50 Pack | 1001399 | 25 NxGen 500 Cartridges |
| | NanoAssemblr Ignite+ Cartridges - NxGen 500D - 100 Pack | 1001400 | 50 NxGen 500 Cartridges |

About Precision NanoSystems

Precision NanoSystems is a global leader in ushering in the next wave of genomic medicines in infectious diseases, cancer and rare diseases. We work with the world's leading drug researchers to understand disease and create the therapeutics and vaccines that will define the future of medicine. Precision NanoSystems offers proprietary technology platforms and comprehensive expertise to enable researchers to translate disease biology insights into non-viral genomic medicines.

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