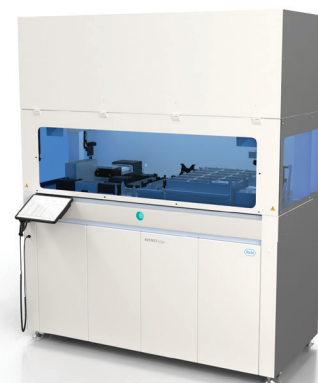


# AVENIO Edge System

## *Technical specifications*



### General

<b>Configuration</b>	Floor model
<b>Throughput per run</b>	1–48 samples for library prep and target enrichment
<b>Runtime</b>	Up to 31 hrs (including 16 hrs hybridization time)
<b>Setup time</b>	Approximately 15 mins prior to run
<b>Inventory check</b>	Pre-run consumable list. Pre-run check for empty positions and incorrectly placed items
<b>Quality control on deck</b>	Fluorescence-based quantification method
<b>Barcodes</b>	2D imager scans for 2D and 1D barcodes
<b>Regulatory label</b>	US-IVD, CE-IVD

### Kits and applications

<b>Reagent design</b>	Pre-filled, barcoded, ready-to-use. Reagent kits are optimized for 3 runs.
<b>Sample type</b>	Extracted DNA samples
<b>Workflow</b>	Hybridization-based target enrichment

### Software and connectivity

<b>Traceability</b>	21 CFR part 11 (subsection B), audit trail, process monitoring, user guidance
<b>Data export</b>	CSV, XML and PDF run exports. Sample input in .csv format
<b>Interfaces</b>	2 external USB ports and 1 network port
<b>Connectivity</b>	AVENIO Connect Workflow Manager or HL7 LIS connection, Roche remote service solution

### Deck capacity

<b>Consumables</b>	17 tip racks of 96 tips each, supporting 3 tip types (50 / 200 / 1000 µL) 6 processing plates 5 processing lids 2 quantification plates 2 tip parks 4 panel tubes (to reconstitute custom panels)
<b>Reagents</b>	15 control mini racks; each rack includes 4 individual 2.0 ml tubes 10 troughs 20 cooled reagent tubes, 0.5 or 2.0 mL 2 primer plates
<b>Inputs</b>	1 MagNA Pure 96 output plate or 12 MagNA Pure 24 8-tube strips, low or high profile, or 1 processing plate

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## *Technical specifications*

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### Hardware

<b>Instrument footprint (WxDxH)</b>	1664 mm x 787 mm x 2032 mm 65.5 in x 31 in x 80 in
<b>Operating space (WxDxH)</b>	2664 mm x 1987 mm x 2100 mm 105 in x 78 in x 83 in
<b>Construction and service space (WxDxH)</b>	2664 mm x 3000 mm x 3000 mm 105 in x 118 in x 118 in
<b>Weight</b>	560.9 kg 1236.3 lbs
<b>Contamination control</b>	Work deck layout optimized to minimize contamination risk, UV light, optimized pipetting parameters with each TDF
<b>Pipetting head</b>	Single 8-channel pipetting head
<b>Cooling block</b>	2 °C–8 °C 36 °F–47 °F
<b>On-deck thermocycler</b>	Temperature range thermal block: +4°C to +99°C Temperature range heated lid: +30°C to +115°C Maximum average heating rate: 4.4°C /sec Maximum average cooling rate: 2.2°C /sec Temperature accuracy: ±0.3°C at 55°C Temperature uniformity: ±0.2°C at 55°C, 72°C, 95°C
<b>Quantification module</b>	High-performance multimode plate reader powered by a monochromator

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### Power and environmental requirements

<b>Maximum pressure</b>	< 1 MPa on floor for each foot
<b>Ambient room temperature</b>	15 °C–30 °C 59 °F–86 °F
<b>Operating humidity</b>	30–80%
<b>Power requirement</b>	110–240 VAC, 50/60 Hz (200 VAC between phases for Japan)

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