AVENIO Edge System
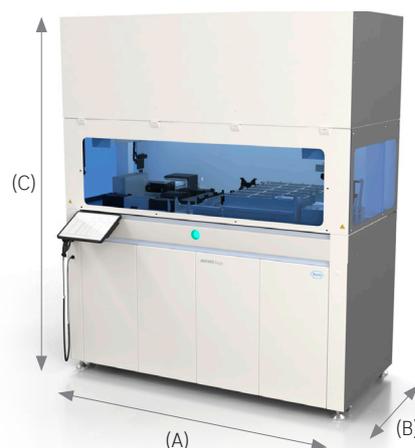## *Site preparation planning*

Planning

The AVENIO Edge System is delivered in four crates. A trained and certified Roche Service Representative (RSR) will support you in the preparation activities and will be necessary to perform the installation. This document will orient you about the key space, power, and operating requirements. You may need to consider a storage area for the crates between the delivery and scheduled installation date. Please coordinate with your RSR on delivery and installation dates.

AVENIO Edge Instrument: 09283234001
FortiGate 60F Firewall: 09539913001
Unified Gateway EU version: 10070781001 US version: 10169516001
AVENIO Designer Software: 10001224001

Site requirements

Power requirements:

Mains voltage range:
110V to 125V ±10%
200V to 240V ±10%

Mains frequency range:
50Hz ±5% to 60Hz ±5%

Power consumption:
1760 VA to 2300 VA

Environmental conditions:

Operating temperatures:
+15°C to +30°C (+59°F to +86°F)

Relative humidity, (rH):
30% to 80% (non-condensing)

Instrument dimensions:

Width (A)	1659 mm
Depth (B)	784 mm
Height (C)	2022 mm

Total weight: 560.9 kg

Instrument components

You will receive the following four crates, each containing one (1) each of the following:

1 Base Unit
(W x D x H: 1820 x 1100 x 1530 mm; weight: 307 kg)

Chassis
Includes: Interface for earthquake protection, status light and drip trays

Pipetting arm
Includes: Lower Disposable Tip eject

Gripper arm
Includes: Gripper head and 2D barcode scanner

Touchscreen
Includes: Mount

Front flap
Includes: Door locks

Top panels and roof
Includes: LED-strip and UV-C Purion 36W UV light

2x Side panels

Back panels (upper and lower part)
Includes: Fans and diverters

Deck segment back panel (IDS6)

2 Instrument Deck
(W x D x H: 2200 x 1010 x 770 mm; weight: 196 kg)

Deck
Includes: Plate and lid storage magazines, short and long gripper finger exchange station

Deck segment 2
Includes: 17x tip tray positions, quantification plate magazine

Deck segment 3
Includes: Trough carrier, trough lid park, reagent mini rack carrier, combi tool, cooling tube rack carrier

Deck segment 4.1
Includes: Primer plate magazine, cooling unit, 5x cooling tube racks, 2x cooling lids, cooling lid park position

Deck segment 4.2
Includes: Output plate position, input position and strip tube downholder, 2x tip park position, lid park position

Deck segment 5
Includes: Separation station, heater shaker, thermal cycler, 2 waste chutes, liquid waste plate position

3 Cabinet
(W x D x H: 2200 x 1010 x 1080 mm; weight: 236kg)

Cabinet
Includes: Power button, 2x USB connection, 4x feet & rollers, interface for earthquake protection

4x doors
Includes: Door lock (left compartment)

Shelf (right compartment)

Side panels

Back panel
Includes: Fan and diverters

Solid waste compartment

Industrial PC

Power box

USB hub

Thermal cycler controller box

Cooling unit

Handheld barcode scanner
Includes: Mount

4 Quantification Module
(W x D x H: 780 x 630 x 470 mm; weight: 34 kg)

Quantification module

Software

AVENIO Edge Software (preinstalled)

Hardware installation

A team of 4 professional movers will safely deliver the instrument into the lab. Time and effort needed for transport will depend on the local layout and space available. We recommend a walk through to check doors and elevator prior to installation. The RSR will instruct the movers and supervise the installation of the base unit and its cabinet.

Layout

Transport condition on wheels
Minimum space requirements:
A x B x C = 1659 x 784 x 2022 mm

Net weight of instrument: 5500 N

Wheel diameter: 50 mm, avoid threshold, sensitive to shock

Operating condition
Minimum space requirement:
D x E x F = 2659 x 1984 x 2100 mm

Maximum pressure on floor of each foot: less than 1 MPa

Construction and service condition
Minimum space requirement:
G x H x K = 2659 x 3000 x 3000 mm

The AVENIO Edge System is a Class 1 US IVD and a Class A CE IVDR and is intended for downstream diagnostic applications; it can be used for Research Use Only (RUO) workflows.