

# GENEQUALITY X120 e GENEQUALITY X120 TRACK



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## Table of contents

Table of contents.....	1
GENEQUALITY X120 e GENEQUALITY X120 TRACK.....	2
Product description and features .....	2
Technical features.....	2
Requirements.....	3
Ordering information.....	3

## GENEQUALITY X120 e GENEQUALITY X120 TRACK

### Product description and features

GENEQUALITY X120 is an automated system for the extraction of nucleic acids from biological samples and the set-up of PCR reactions.

The system consists of a workstation and a software. It is intended to be used in association with nucleic acids extraction kits, PCR kits and disposables, that are explicitly declared compatible.

In addition, the GENEQUALITY X120 TRACK allows the management of biobanking labware.

The use of established magnetic bead-based technologies for isolation and purification of nucleic acids enables the combination of speed and efficiency. Innovative functions and optimized protocols enable standardized and efficient workflow with high quality and reproducibility of results.

The touch-screen-based interface is extremely simple and intuitive, and the entire system is designed to make operations fast and foolproof.

**GENEQUALITY X120** is CE-IVD marked in accordance with the Regulation (EU) 2017/746 (IVDR) on *in vitro* diagnostic medical devices, in combination with dedicated products.



Figure 1. GENEQUALITY X120

### Technical features

Specifications	Description
Samples volume	Up to 400 $\mu$ L
Throughput	Up to 64 or 96 samples per run, depending on the version
Samples loading	From primary tubes, with barcode identification
PCR run setup	Up to 24 different assays per PCR plate
Liquid handler tips	50, 300 e 1000 $\mu$ L conductive disposable filter tips
Liquid handler	8-channel and air-displacement, volume range up to 1000 $\mu$ L, barometric and capacitive liquid sensor, with clot detection
Sample carriers	With 24 and 32 positions able to load tubes with a diameter of 16 and 12-13 mm respectively
Integrated devices	Incubator/shaker up to 95° C
	Active cooling block for Real time PCR reagents
	Loading of PCR plate on an external thermal cycler, connected to the system via LAN
Workstation	System equipped with relational database for reagents and samples tracking
	Bidirectional connectivity to LIS
Integrated barcode readers	Fixed linear code reader
	Branded 2D code reader
	Integrated 2D scanner for biobanking tubes (optional)
	Orbital barcode reader for plates
Dimensions	1124 mm L x 1180 mm A x 795 mm P
Weight	135 Kg

## Requirements

Specifications for the installation of GENEQUALITY X120:

1. Minimum bench dimensions: 1800 mm W x 900 mm H x 900 mm D. The bench must be equipped with very strong side supports and a longitudinal crossbar. There should be a space to move in front of the instrument not less than 80 cm along the entire length of the bench.
2. Space should be provided in the proximity of the system to store consumables needed for daily use of the instrument (space below the top of the support table is recommended)
3. Room temperature: 15-26°C
4. Humidity: 20% to 80%, non-condensing
5. Avoid direct exposure to the sun
6. Avoid direct exposure to hot and cold airstreams
7. Avoid exposure to dust, fumes and environmental pollutants
8. Place the instrument away from other equipment emitting RF electromagnetic fields, as well as minimize static electricity in the surrounding area
9. 4 Schuko type electrical sockets: the power supply is provided at 220V-50hz, with guaranteed continuity characteristics. If necessary, a 3000 VA UPS must be provided
10. 1 connection of LAN network

## Ordering information

Version	Commercial code
GENEQUALITY X120 (up to 96 simultaneous samples)	08-20-96
GENEQUALITY X120 (up to 64 simultaneous samples)	08-20-48
GENEQUALITY X120 TRACK	08-21-48

Associated extraction kits:

Version	Commercial code
GENEQUALITY X120 Pathogen <i>Isolation and purification kit for nucleic acids from different human biological matrices</i>	05-X12-6A
GENEQUALITY AB Extra Speed <i>Viral nucleic acid rapid extraction kit</i>	05-ES-6A