GENEQUALITY Max

AB ANALITICA s.r.l.
Via Svizzera,16 35127 Padova
P.IVA 02375470289
***T** +39 049 761698 **F** +39 049 8709510*
info@abanalitica.it - www.abanalitica.com

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GENEQUALITY Max

Product description and features

GENEQUALITY Max is an automated system sample-to-result for the extraction of nucleic acids from biological samples the Real-Time PCR reactions set-up and run and the reporting of the results. In addition, it allows the set-up of PCR reactions to be run on external thermal cyclers.
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.
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 Max 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 Max

Technical features

Specifications	**Description**
Samples volume	Up to 400 µL
Throughput	Up to 48 samples per run
Samples loading	From primary tubes, with barcode identification
PCR run setup	Up to 24 different assays
Liquid handler tips	50, 300 e 1000 µL conductive disposable filter tips
Liquid handler	8-channel and air-displacement, volume range up to 1000µL, 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
	Two integrated thermal cyclers able to perform two different thermal profiles simultaneously
	Possibility to load a 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
Dimensions	1124 mm L x 1180 mm A x 795 mm P
Weight	135 Kg

Requirements

Specifications for the installation of GENEQUALITY Max:

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 Max	08-22-48

Associated extraction kits:

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