



GeneDisc® Cyclor



An easy, rapid, reliable method for pathogen detection

Features

- Easy to use
- Flexible, modular system
- Multi target measurement
- Designed to address 21CFR Part 11
- Real-time measurement in a closed system
- At-a-glance display of results
- Seamless data transfer with capability for bi-directional LIMS connectivity

Benefits

- No need for strong technical skills
- Conduct multiple applications at once
- Detect and quantify a range of important microorganisms in a single assay
- Suitable for use in a cGMP environment
- Minimum operator intervention and reduced risk of cross-contamination
- Enables rapid decision making
- Optimize your workflow

Description

Pall's GeneDisc system has been successfully established in many of the world leading food and environmental industries. The equipment's automation allows less specialized and minimally-trained personnel to routinely perform sophisticated biological sample testing.

Part of the GeneDisc system, the GeneDisc Cyclor is a robust, real time PCR platform for the rapid, sensitive and specific detection of microorganisms, in a matter of hours.

It is comprised of a base unit plus up to seven sub-units. Each of the units can hold one GeneDisc plate. The plate's unique, proprietary design enables the detection of a range of microorganisms simultaneously within the same sample DNA extract. The Cyclor performs gene amplification in the plate, and each plate can be used to test either six, nine or twelve samples in parallel. When all sub-units are in use, the Cyclor can analyze up to 96 samples in an hour.

The unique, modular nature of the GeneDisc cyclor offers the flexibility to fit your work flow requirements and to process different applications simultaneously. It also provides the technological controls required for using Electronic Records and Electronic Signatures (ERES) in a regulated environment (e.g. in an environment compliant with 21 CFR Part 11, Annex 11 or other regional legislation on ERES).



The GeneDisc plate is preloaded with all the specific primers and probes necessary for the PCR reaction

Testing Sequence



1. Scan barcode to validate GeneDisc plate and test



2. Fill plate



3. Load plate into the GeneDisc Cyclor

Easy to Run

To perform a test, the GeneDisc plate is scanned using the supplied barcode reader. Test parameters are stored in firmware within the Cyclor, and are automatically recognized by the Cyclor once the barcode is read. This enables easy protocol set-up, protects security of key operational parameters and enables reliability of data generated. Next, samples of DNA and PCR reagents are added to the GeneDisc plate via the Cyclor's integrated vacuum system.

Finally the plate is placed in the Cyclor, where it rotates on different heating plates at a fixed temperature to perform the PCR temperature cycles. One rotation equals one cycle. The Cyclor's optical system measures any fluorescent signal generated during testing. Data is sent to an integrated computer and user-friendly software records, analyzes and reports the results. Interpretation is automated and a table indicating all results is displayed at the end of the test sequence. Such rapid and clear results enable fast decision-making for the user, and the minimum handling of PCR components ensures accurate and highly-reproducible data, requiring no significant user skills or training.

Why wait days to get results?

Accelerate your testing with the GeneDisc Cyclor – part of Pall's, simple to use, convenient, reliable and cost-effective GeneDisc system.

Technical Specifications

Physical Dimensions

Weight	Base Unit: 14 kg (30.8 lbs) Sub-Unit: 2 kg (4.4 lbs)
Dimensions (Width x height x depth)	Base Unit: 321 mm x 289 mm x 346 mm (12.6 in. x 11.4 in. x 13.6 in.) Sub-Units: 161 mm x 242 mm x 227 mm (6.3 in. x 9.5 in. x 8.9 in.) Full configuration: 643 mm x 640 mm x 573 mm (25.3 in. x 25.2 in. x 22.5 in.)
Working Area	700 mm x 700mm x 600 mm (27.5 in. x 27.5 in. x 23.6 in.)

Electrical Data

Voltage	Base Unit: 110 - 230 V AC, 50-60 Hz Sub-Units: 48 V CC
Power Consumption	4 A (nominal) for 230 V AC; 10 A (nominal) for 110 V AC

Connections

6 USB Ports	Barcode Reader (supplied) Touchscreen (supplied) 4 additional ports for other accessories
Other User Interface Ports	1 x Ethernet port

Environmental Conditions

Altitudes	Up to 2,000 m (6,500 ft)
Operating Temperature	+15 °C to +35 °C
Maximum Relative humidity	80% RH (no condensation)

Splash Protection

Touchscreen	To IP30
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Storage Conditions

Ambient temperatures	-20 °C to +60 °C
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Further Information

Pall offers a wide range of single and multi-target assays for food safety pathogen detection, environmental quantitative applications and pharma process monitoring.

For more information and a list of all product-related part numbers, accessories and technical services, visit www.pall.com/genedisc or contact us at genedisc@pall.com.

Ordering Information

Description	Part Number
Base Unit	EGDCV3A
Sub-Unit	EGDSV3A



GeneDisc Cycler showing base unit plus two additional sub-units



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