

## GeneDisc® Cycler

An easy, rapid, reliable method for pathogen and spoiler detection

### Description

Pall's GeneDisc system has been successfully established in many of the world's leading food, beverage 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 Cycler 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 Cycler performs gene amplification in the plate, and each plate can be used to test either three, six, or twelve samples in parallel. When all sub-units are in use, the Cycler can analyze up to 96 samples in an hour. The unique, modular nature of the GeneDisc cycler offers the flexibility to fit your workflow 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).

#### 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

Suitable for use in a cGMP environment

Minimum operator intervention and reduced risk of cross-contamination

Enables rapid decision making

Optimize your workflow



GeneDisc Cycler and sub-units

### 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 Cycler and are automatically recognized by the Cycler 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 Cycler's integrated vacuum system. Finally, the plate is placed in the Cycler, where it rotates on different heating plates at a fixed temperature to perform the PCR temperature cycles. One rotation equals one cycle. The Cycler'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 Cycler – 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 Unit: 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 700 mm x 600 mm (27.5 in x 27.5 in x 23.6 in)

### Electrical Data

Voltage	Bag-Unit: 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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## Ordering Information

Description	Part Number
Base Unit	EGDCV3A
Sub-Unit	EGDSV3A

## Further Information

Pall offers a wide range of single and multi-target assays for food safety pathogen detection, beverage spoiler, and 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](http://www.pall.com/genedisc) or contact us at [genedisc@pall.com](mailto:genedisc@pall.com).



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Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit [www.pall.com/contact](http://www.pall.com/contact).

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

*IF APPLICABLE* Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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