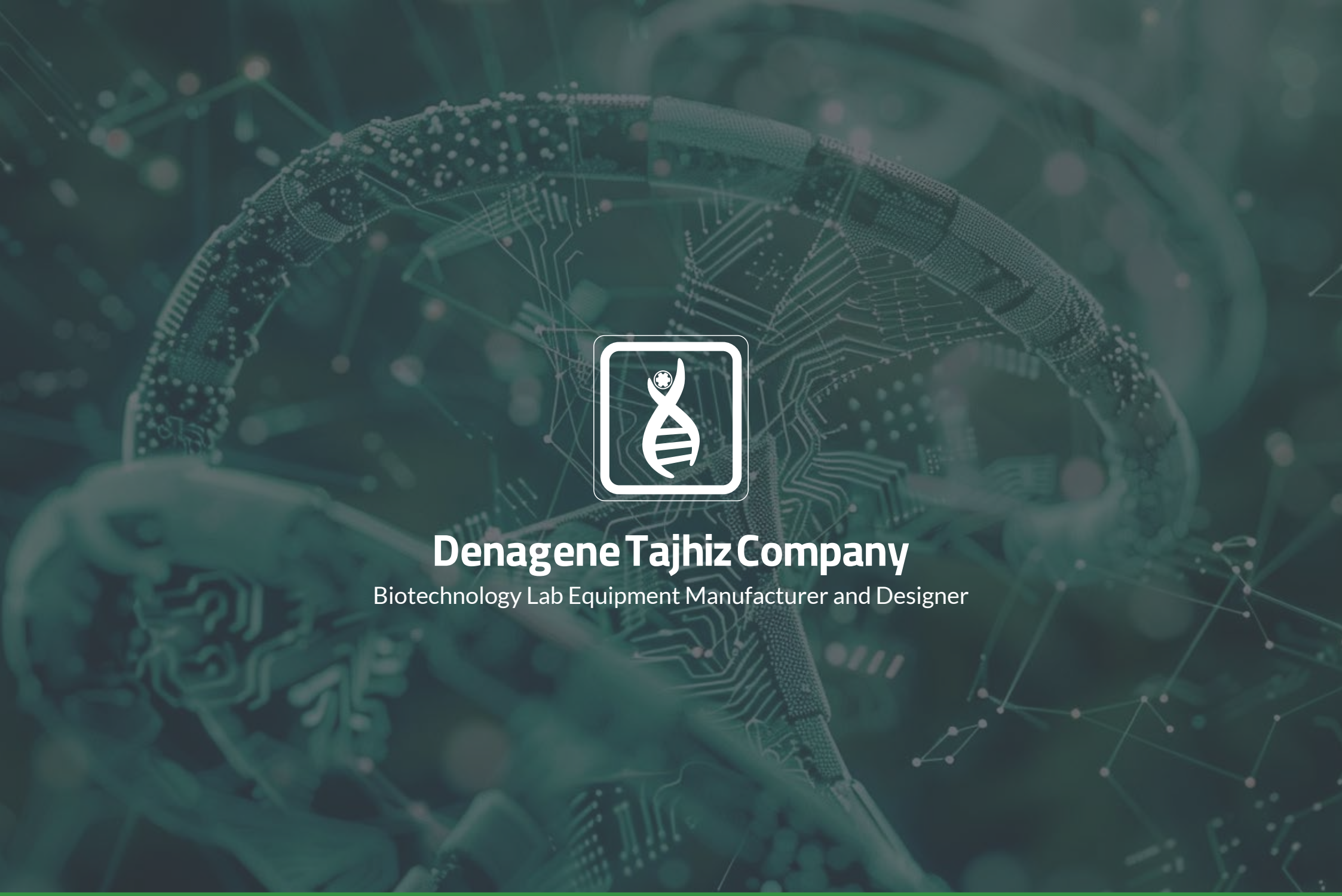


Denagene Tajhiz Company

Biotechnology Lab Equipment Manufacturer and Designer

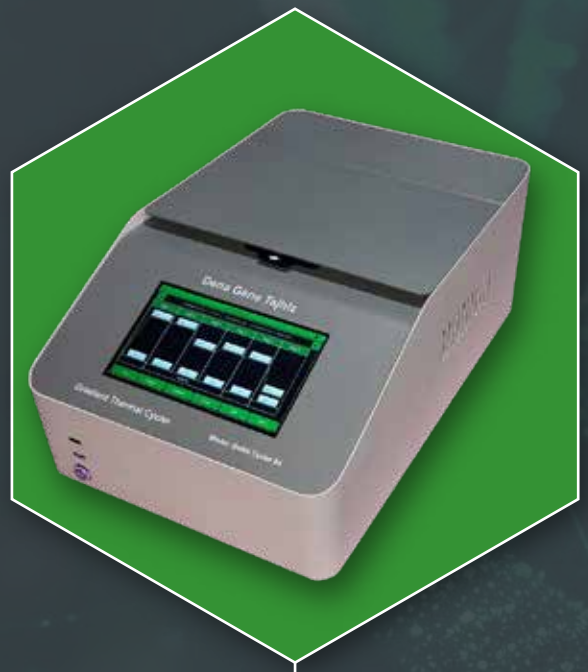
About Us

Established in 2014 in Tehran, at the Science and Technology Park of Tarbiat Modares University, Denagene Tajhiz proudly stands as a distinguished lab equipment manufacturing Iranian company.

Our focus lies in the design and manufacturing of laboratory and biotechnology equipment and materials, and we take pride in our active Research and Development unit dedicated to advancing essential products within these domains.

Our main goal at Denagene is to provide suitable, reliable, and precise solutions for biotechnology researchers and scientists, enabling them to achieve the best results in their experiments. We have strived to become a leading laboratory in Iran, focusing on quality, precision, and flexibility.

By leveraging the latest technologies, we strive to offer our services and equipment to fellow citizens at a level synchronized with global advancements.



The thermal cycler, or PCR machine, utilizes Peltier technology to amplify nucleic acids. By amplifying DNA, subsequent downstream processes such as diagnostics, cloning, genotyping, and sequencing can be easily performed.

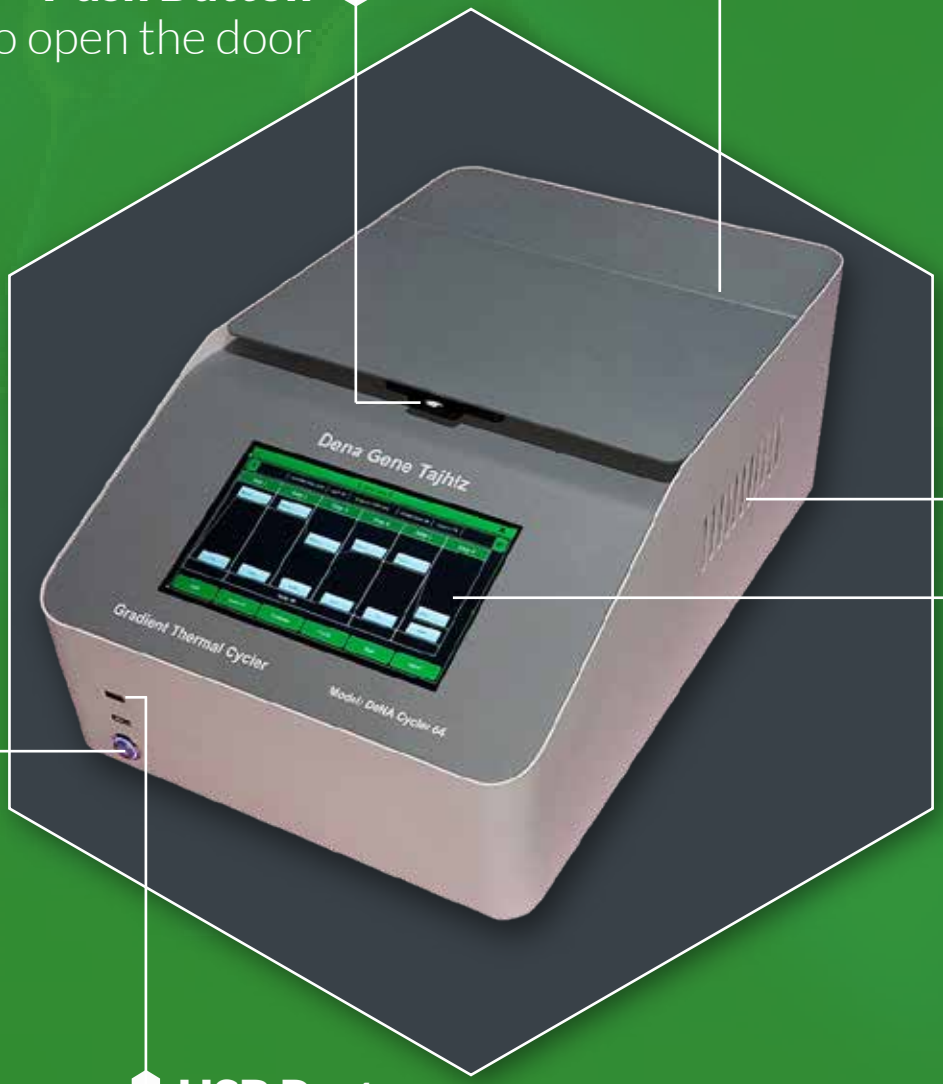
Thermal cyclers come in both standard and gradient types, and Denagene Tajhiz designs and manufactures both conventional PCR and gradient PCR systems for the market.

The device's optimal ramping speed ensures that PCR reactions are conducted efficiently, minimizing time loss during ramping. Denagene Tajhiz's PCR devices are distinguished by their professional design, optimal ramp rates, and exceptionally user-friendly software interface, making molecular experiments more enjoyable and convenient for users.

Gradient Thermocycler PCR

Heat Lid
Used to heat the samples to a high temperature.

Push Button
Used to open the door



Air ventilation paths
for ventilation of the PCR device

Power Button

Touchscreen
To bbring up the software and user interface

USB Port
Used for connecting the command interface cable and run the reaction

Applications

- Immunology
- Forensic Science
- Cancer Diagnosis
- Population Biology
- Paleontology
- Zoology
- Plant Science Research
- Clinical Diagnostics of Viruses, Tumors, and Genetic Diseases.

Features

- Uniform temperature distribution across the block
- Unlimited programmable storage
- Dynamic programming system
- Optimal ramping rate
- Eco Mode configuration capability
- Precise temperature zone definition (instead of gradient)
- Durable design for continuous laboratory use
- User-friendly and modern interface (touchscreen display)
- Heated lid to prevent sample evaporation in the block

Technical Specification

Gradient Thermocycler PCR

Model	DeNA Cycler 32	DeNA Cycler 64
Sample Capacity (ML)	32 * 0.2	64 * 0.2
Temperature Range (°C)	4 _ 100	4 _ 100
Temperature Accuracy (°C)	0.1	0.1
Average Temperature Rise Rate (°C)	3	3
Average Rate Of Temperature Decrease (°C)	2.5	2.5
Maximum Rate Of Temperature Change (°C)	4	4
Temperature Uniformity (°C)	±0.4 at 50	±0.4 at 50
Number of gradient regions (°C	2 zones	4 zones
Gradient Range (°C)	8	8
Lid Temperature	Default on 105, but can be variable	Default on 105, but can be variable
Thermal Blocks Mode	yes	yes
Maximum Number Of Steps	100	100

Technical Specification

Gradient Thermocycler PCR

Model	DeNA Cycler 32	DeNA Cycler 64
Maximum Number Of Cycles	100	100
Maximum Number Of Programs	Unlimited	Unlimited
LCD Dispaly	7" HDMI Display	7" HDMI Display
USB Port	yes	yes
Dimensions (height*width*length CM)	17 *26 * 40	17 *26 * 40
Weight (KG)	8	9
Operating Temperature (°C)	10 - 30	10 - 30
Power (W)	400 W	600 W

Gradient Thermocycler PCR

PCR is widely regarded as the gold standard in diagnostic assays, allowing for the rapid and precise detection of infectious diseases through the analysis of small DNA and RNA samples from patients. Designed with user-friendly software and robust construction, our Gradient Thermocycler PCR guarantees ease of use, durability, and high performance, making it a valuable investment for any research facility.

Contact Us

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Denagene, The Powerful Gene