

Incu-Shaker CO₂ Mini

Ideal for the culturing cells, the Incu-Shaker CO₂ Mini combines a precision CO₂ incubation chamber with an integral orbital shaker, providing the optimum conditions for suspension cell culture.

With our unique and proprietary heat distribution technology, the incubator provides the highest levels of temperature accuracy with minimal fluctuation (within 0.1°C). The six-side heating system in combination with a low speed internal fan uniformly spreads air throughout the stainless steel chamber (without air exchange from the external environment). For applications requiring solely gravity convection, this internal fan can be disabled, significantly reducing the concern of sample to sample contamination.

A beltless motor drive provides a horizontally circular shaking motion at a consistent 19mm orbit. The included platform (9.5 x 11.5 in.) can be used for low speed shaking of a variety of laboratory vessels, including Erlenmeyer flasks, culture plates and media bottles. For higher speed mixing, a patented MAGic Clamp platform is available for magnetic attachment of flask clamps and tube racks.



Advanced Monitoring & Controls

Throughout the incubation, digital microprocessor controls provide constant monitoring over the temp. and CO₂%. In the event of a deviation, an audible alarm alerts the user.

Dual Beam IR Sensor

InfraRed (IR) CO₂ sensor provides accurate measurement and control over the CO₂ density (percentage)

Integral Orbital Shaker

Built in orbital shaker features a 19mm horizontally circular orbit for thorough mixing or aeration of samples at speeds up to 300rpm.

Stackable Design

The beltless motor drive system limits vibration and provides a smooth, consistent shaking motion, permitting two incubators to be stacked together.

Stainless Steel Chamber

The stainless steel (SS-316) internal chamber provides excellent temperature uniformity. The seamless design features rounded corners for easy cleaning.

6-Sided Direct Heating

Precision heat control over all 6 sides of the fully sealed chamber, minimizes air flow and reduces the concern of contamination.



MAGic Clamp™ Platform

Optional MAGic Clamp accessories (Patented) are available for attaching erlenmeyer flasks, micro-plates, test tube racks and other vessels to the shaking platform. This patented design allows for instant, magnetic attachment of clamps without the use of tools, screws and other hardware.

Sealed Inner Glass Door

The inner glass door is transparent, allowing visualization of samples without fully exposing the chamber to the ambient environment, improving performance and reducing energy waste.



Heated Door

The six sided, direct heating design provides the highest level of temperature uniformity (± 0.5). In addition, the heated door prevents the forming of condensation on the inner glass door, for improved sample visualization.

Adjustable, pull out shelf

An included stainless steel shelf allows shaking of suspended cells while simultaneously incubating adherent cells. This static shelf can be pulled outward for easy loading/unloading and can be adjusted or (removed) for shaking taller vessels.



Technical Data:

Temp. Range:	Ambient +5 to 60°C
Temp. Accuracy:	$\pm 0.5^\circ\text{C}$
Temp. Uniformity:	$\pm 0.5^\circ\text{C}$
Temp. Increments:	0.1°C
Temp. Stability:	0.1°C
Speed Range:	30 to 300 rpm
Speed Increment:	1 rpm
Mixing Orbit:	19mm (3/4 in.)
CO2 Range:	0 to 20%
CO2 Increment:	0.1%
CO2 Accuracy:	$\pm 0.1\%$
CO2 Sensor:	Dual Beam IR
Time Range:	1 min. to 48 hours (or continuous)
Platform Dimensions:	9.5 x 11.5 in. (23.5 x 29 cm)
Chamber Dimensions:	13.2 x 10.25 x 15.4 in. (33.5 x 26 x 39.2 cm)
Chamber Volume:	46L
Chamber Material:	Stainless Steel
Exterior Dimensions:	16.5 x 18.3 x 21.8 in. (42 x 46.5 x 55.3 cm)
Weight:	90 lbs. (40.1 kg)
Electrical:	120V or 230V, 50-60Hz (350W)

* At a set temperature of 37.0°C

Maximum Capacity Chart:

50ml Flasks	125ml Flasks	250ml Flasks	500ml Flasks	1000ml Flasks	Micro-plates	15ml Tubes	50ml Tubes
20	12	8	5	4	4	64	30



MAGic Clamp Platform

Cat. No.	Description
ES89366-CO2	Incu-Shaker Mini CO2
H2300-REG	Optional CO2, gas regulator
MAGic Clamp Accessories	
ES59567	MAGic Clamp™ Universal Platform
ES59567-C	MAGic Clamp™ COMBO For 125 ML, 250 ML, 500 ML Flasks
ES59569-50ER	MAGic Clamp™ Magnetic Clamp, 50mL Erlenmeyer
ES59569-125ER	MAGic Clamp™ Magnetic Clamp, 125mL Erlenmeyer
ES59569-250ER	MAGic Clamp™ Magnetic Clamp, 250mL Erlenmeyer
ES59569-500ER	MAGic Clamp™ Magnetic Clamp, 500ml Erlenmeyer
ES59569-1000ER	MAGic Clamp™ Magnetic Clamp, 1000ml Erlenmeyer
ES59569-MP	MAGic Clamp™ Magnetic Clamp, One Microplate
ES59568-R15	MAGic Clamp™ Tube Rack, 32 X 15 ML Tubes
ES59568-R50	MAGic Clamp™ Tube Rack, 15 X 50 ML Tubes
ES59568-R1550	MAGic Clamp™ Tube Rack, 30 X 15mL & 20 X 50 ML Tubes
ES59568-RBTL	MAGic Clamp™ Tube Rack, 4 X 500 ML Or 600 ML Conical Bottles
ES59567-TLT	MAGic Clamp™ Tilted Holder For 15 ML And 50 ML Tube Racks



ES59567-C



ES59568-R1550



ES59569-MP



ES59568-RBTL

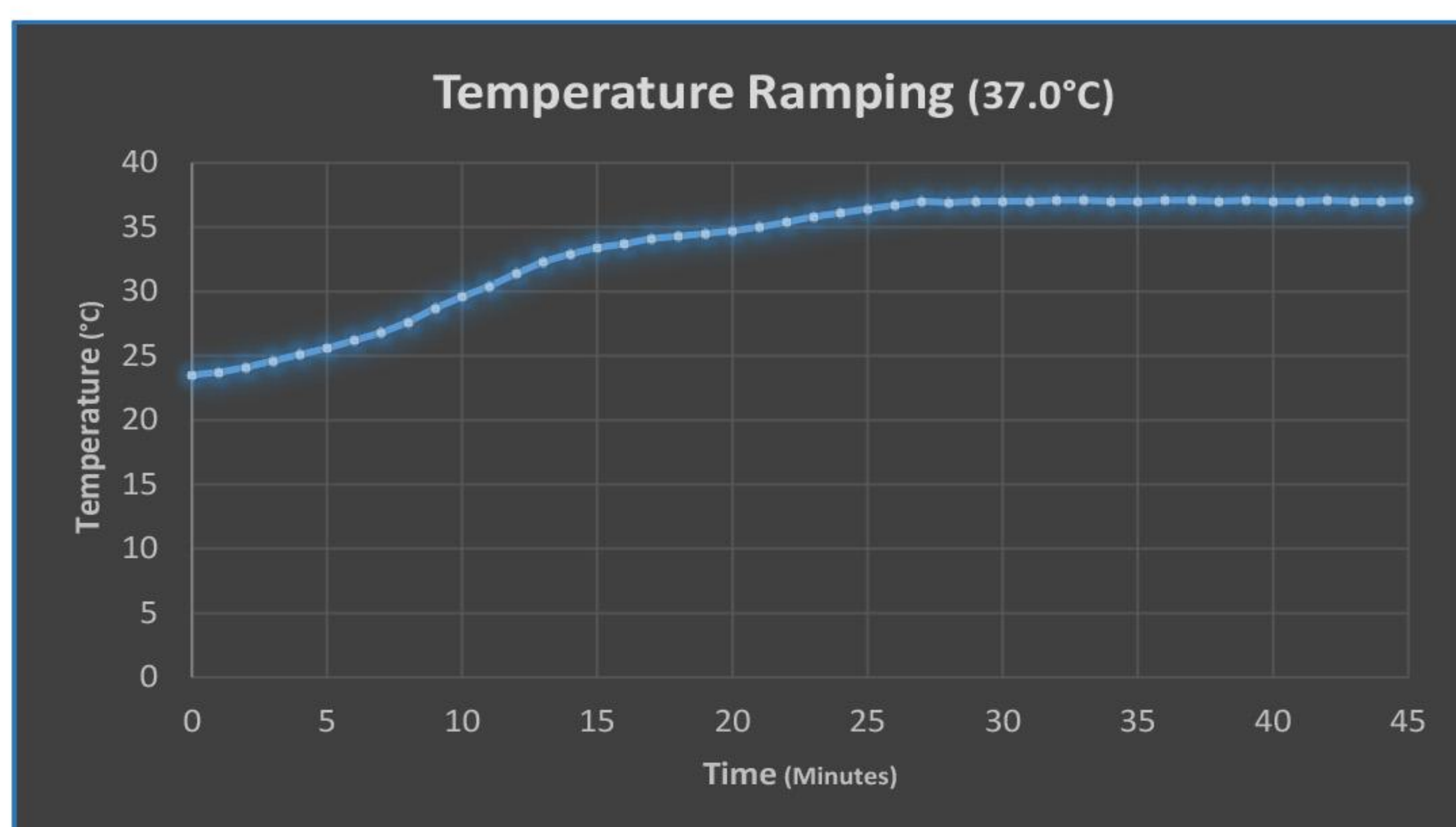


Fig. 1. Temperature Ramping Chart: Chamber temperature progression from room temperature to a set temperature of 37.0°C. Shows the set temperature reached in under 30 minutes and holds steady within 0.1C of 37.0C throughout the duration.

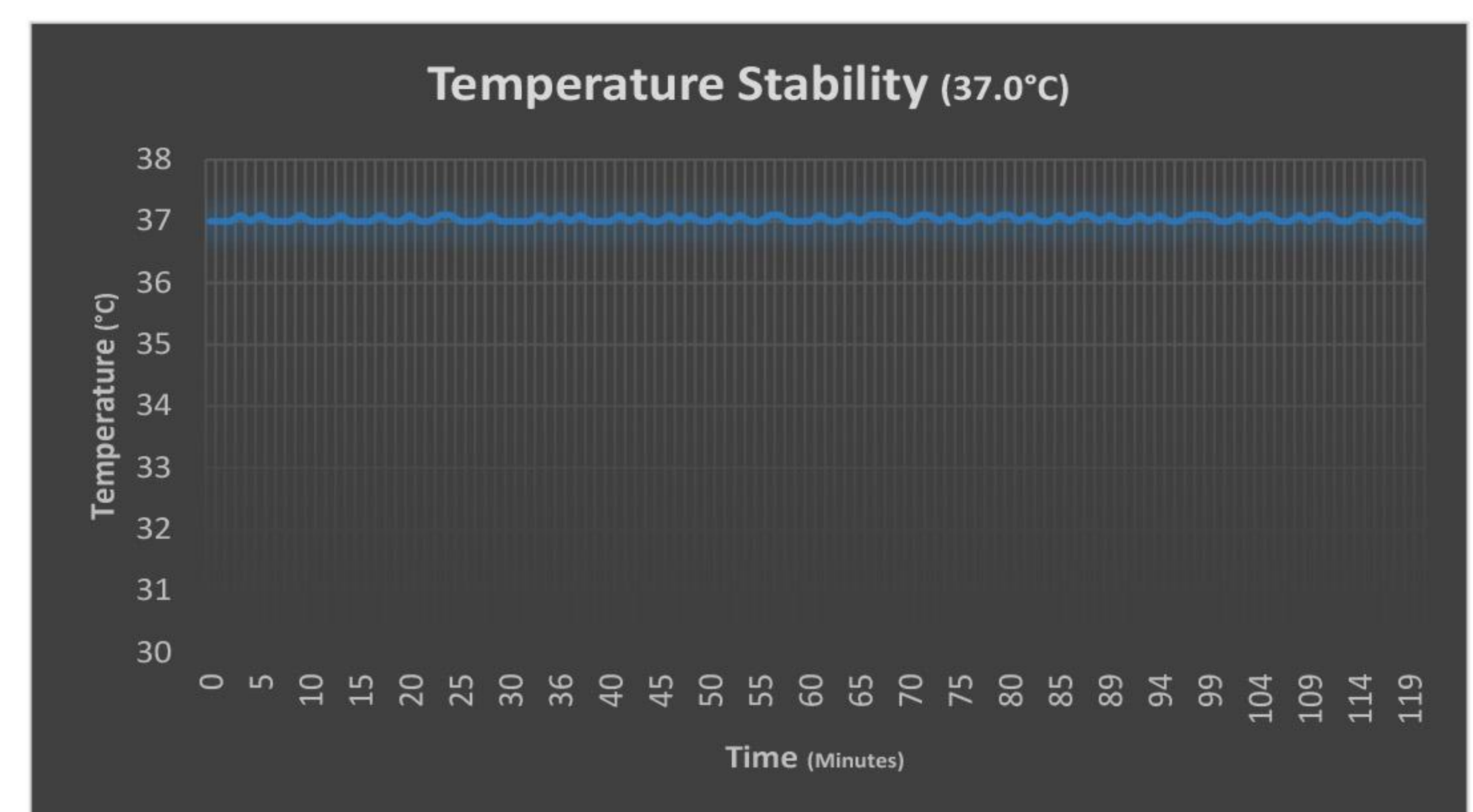


Fig. 2. Temperature Stability Chart: Chamber temperature for a two hour duration following stabilization (within 0.1°C) at 37.0°C.