

CO₂ Incubator Shaker



Magnetic Direct Drive:
Precise and Reliable Rotation Speed



Peltier Cooling:
Precise and Gentle Temperature Control



Consistent and uniform CO₂ distribution:
precise concentration and a lightning
- fast recovery rate



Personalized Options:
Empowering Limitless Multifunctional
Expansion



HYLP-135C

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Scope of Application

It creates a dynamic culture environment for cells and microorganisms. Through the shaking plate, it initiates orbital shaking of the culture containers, significantly enhancing gas transfer and mass transfer rates within the culture medium. This makes it perfect for high - density culturing of cells and microorganisms as well as process amplification in production. Its main application areas cover the dynamic culturing of cells, bacteria, fungi and various other microorganisms.

Applications

- Bacteria and yeast culture
- Solubility studies
- General mixing
- Staining and destaining
- Hybridizations
- Diagnostic tests
- Washing procedures
- Protein production
- Plasmid production



Product Feature

Multi - safety & User - friendly Design

Comprehensive Safety Configuration

Supports high/low/over-temperature warning, abnormal speed alert and automatic heating cutoff. A dedicated slow-stop safety design ensures all-round protection of operators, samples and facilities

User-Friendly Operation

Passive humidity regulation; Supports UV sterilization with adjustable timing; Auto-recovery after abnormal power outage to prevent experiment interruption and data missing

Optimal Space Utilization

Supports single and dual-layer stacking configurations with a side-opening door design. It effectively minimizes floor footprint and maximizes overall space utilization efficiency.

Zero Condensation Design

Equipped with dedicated door heating function to eliminate condensation under high humidity, which restrains bacterial growth.

Professional Structural Design

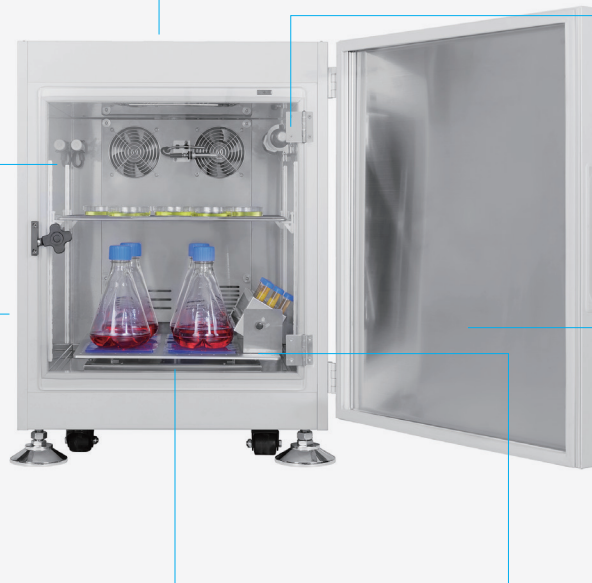
Specially designed side vents deliver sufficient oxygen circulation for sample cultivation, creating a superior growth environment.

Dynamic - Static Fusion:

A dynamic shaking plate paired with an adjustable - height static shelf provides versatile functionality for various experiments.

Effortless Cleaning and Maintenance:

The inner tank's bottom is crafted from 304 brushed stainless steel, offering not only easy cleaning but also excellent corrosion resistance. The fully flushable base design eliminates cleaning dead corners completely. Equipped with an integrated sloped structure, it enables efficient and rapid drainage



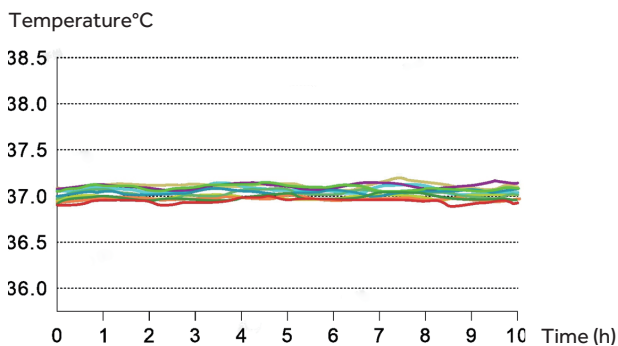
Product Feature

Precision Direct Drive Motor for Reliable, Accurate Speed Control:

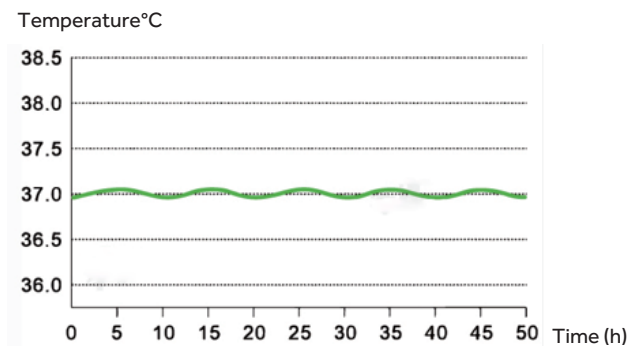
- Unrivaled Precision, Reliability & Low – Temperature
- Operation with Multiple Amplitudes for All Your Needs
- EMC Certified & Filter - Equipped to Minimize EM Interference

Peltier refrigeration for exquisitely precise and gentle temperature control:

- Precise temperature control with a fast response speed, $\leq \pm 0.4^{\circ}\text{C}$ (at 37°C , $\text{RT}22 \pm 3^{\circ}\text{C}$).
- No - frost design enables long - term operation in the low - temperature area, ensuring stable temperature with low fluctuation
- Quiet operation without vibration, energy - saving, environmentally friendly, pollution - free, safe, reliable and long - lasting



Temperature uniformity $\leq \pm 0.4^{\circ}\text{C}$ (at 37°C , $\text{RT}22 \pm 3$)



Temperature fluctuations $\pm 0.2^{\circ}\text{C}$

Personalized options for multi - functional expansion:

- Oxygen concentration control module: Concentration range from 1 - 21%
- Active humidity control module with a humidity range of 50 - 90%

**Data source: Tested under the conditions of ambient temperature $22 \pm 3^{\circ}\text{C}$, temperature set at 37°C , and carbon dioxide set at 5%, the results are clear

Durable construction, reliable performance:

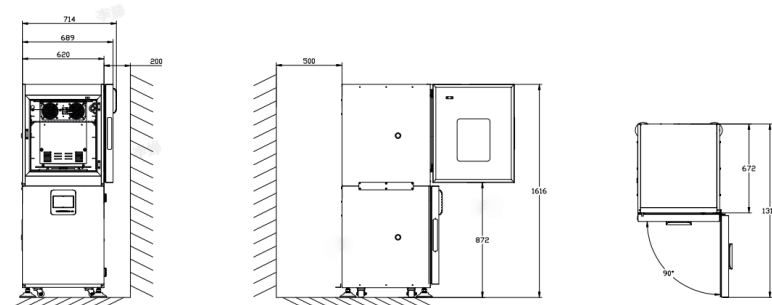
- Durable powder-coated, cold-rolled steel exterior construction
- Precisely monitor and control chamber temperature over complete range with 0.1°C accuracy with PID temperature controller
- Solid-state DC brushless motor, variable speed control from 30 to 300 rpm
- Continuous, timed, or multi-step programs with up to 50 steps, fifty programs storable

Smart shaker drive control:

- Smooth acceleration and deceleration avoid splashing and mechanical damage; for safety, shaker stops, if door is opened to prevent the shaker from walking

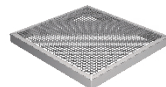
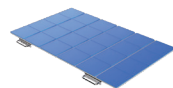
Product Dimensions (2 Units Staked)

unit: mm



HYLP-135C

Accessories

Universal Spring Clamps	HYLP-135C	Picture
420 x 420mm	√	
Adhesive silicone pad (recommended speed <200rpm)	HYLP-135C	Picture
140 x 140mm	Max. Qty 9	
Stainless steel conical flask clamps	HYLP-135C	Picture
250ml	x 16	
300ml	x 16	
500ml	x 13	
1L	x 9	
2L	x 4	
3L	x 4	
5L(Thomson)/5L normall	x 1	
25-200ml customized		
Adjustable-angle stainless steel test tube/centrifuge tube rack W *D *H (mm)=305*82*100	HYLP-135C	Picture
5ml tube (φ14mm×56)	Max. Qty 3	
10ml tube/15ml centrifuge tube(φ15mm×40)		
15ml tube (φ18mm×36)		
15ml tube (φ22mm×30)		
50ml tube/50ml centrifuge tube(φ30mm×14)		
15ml centrifuge tube (φ18mm×33)		
15ml centrifuge tube (φ18.5mm×36)		
10, 15 ml centrifuge tube (φ15.5mm×40)		
20ml tube (φ21.5mm×30)		
Stainless Steel Hole Clamp	HYLP-135C	Picture
Universal Standard Deep Hole Plate	Optional according to user's demand	
W *D *H (mm)=130*100*65		
Universal Standard Microplate		
W *D *H (mm)=135*93*15		

Specifications

			HYLP-135C
Voltage/Frequency			220v/50/60hz
Construction	Chamber Volume		135L
	Interior Chamber		304 stainless steel
	Exterior Chamber		Powder coated cold rolled plate + hot zinc plate
	Access Port		26 mm diameter
	Sterilization Method		UV sterilization, timer adjustable
	Cooling Method		Peltier
Chamber Construction	The Main Body Material		cold-rolled steel powder coated
	Inner Material		304 stainless steel
	Noise dB(A)		≤52dB(A) at 25°C, 150 rpm; ≤54 dB(A) under other operating conditions.
Dimensions	Net/Gross Weight (approx)	kg	113/135
		lbs	249.12/297.62
	Internal Dimensions (W*D*H)	mm	500*510*500
		in	19.69*20.08*19.69
	External Dimensions (W*D*H) Includes Base Feet and Casters	mm	620*740*845
		in	24.41*29.13*33.27
	Packing Dimensions (W*D*H) With Packaging Bottom Support	mm	720*840*980
		in	28.35*33.07*38.58
Shelves	Container Load (20'/40'/40'H)		42/84/84
	Dimensions(W*D) mm		473*436
	Number Standard/Maximum		1 /6
	Max.Load per Shelf (kg)		10kg
Universal Platform	Dimensions(W*D) mm		420*420
	Number		1
	Max.load (kg)		10
Electrical	Rated Voltage Power Supply (V/HZ)		220v/50/60hz
	Nominal Consumption (kw.h)	0.1 kWh/h (Test conditions: 37°C, 200 rpm (no load), 5% CO ₂ , passive humidification)	
		2.4 kWh/24h (Test conditions: 37°C, 200 rpm (no load), 5% CO ₂ , passive humidification)	
Control	Rated Power (W)		800
	Controller		Microprocessor
	Display		7 inch touch screen (HD)
Temperature Range and Accuracy	Operating Temperature range (°C)		4-65 (RT-15)
	Temperature Accuracy (°C)		0.1
	Temperature Uniformity (°C)		±0.4°C (at 37°C, RT22±3)
	Temperature Fluctuations (°C)		±0.2
	Temperature Uniformity		0.4°C at 37°C
	Temperature Fluctuation		0.2°C at 37°C
CO ₂ Control	CO ₂ Range		0-20%
	CO ₂ Fluctuation		±0.1%
	CO ₂ Recovery After 30s Door Open		3min (fastest)

Specifications

HYLP-135C				
Shaking Control	No-load Shaking Speed (rpm)		30-300	
	Speed Accuracy (rpm)		±1	
	Shaking Mode		Orbital shaking (Magnetic direct drive · Variable amplitude)	
	Orbital Diameter		25mm (standard); 19 mm (optional); Other amplitudes can be customized	
Function	IOT		Optional	
	RS485		Optional	
	Remote Alarm		Optional	
	4-20mA		Optional	
	Blackout Curtain		Optional	
	USB		Standard	
	Humidity Control	Natural Humidification		Standard
		Humidity Display		Optional
		Humidity Sensor Type		Optional
		Active Humidity Control		Optional
	Timer		standard: 999h59min	
	Lighting		2W LED light with manual & automatic control	
	Door Heating		Standard	
	Reverse Rotation Switching		Standard	
	Timer Start		Standard	
	Safety	Operation Stops when Door is Opened		Soft stop when door opens, soft start
		Speed Failure Alarm		Shaking abnormality alarm
		Over-temperature Alarm		High temp. low temp. & over-temperature alarms
		Power-off Restart		Restores previous settings after power interruption
	Program Storage	History Data Storage		Data storage for more than 10 years
		Data Recording Interval		Adjustable
		Number of Storable Programs		50
		Program Segments		50
		Program Segment Cycle Times		99
Other	Certificate		CE	

*Haier Biomedical reserves the right to change products and specifications without prior notice.