

Incubator Shaker



Magnetic Direct Drive:
Precise and Reliable Rotation Speed



Peltier Cooling:
Precise and Gentle Temperature Control



Personalized Options:
Empowering Limitless Multifunctional Expansion



HYLP-135Q

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Haier Biomedical



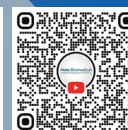
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Scope of Application

It is a kind of biological incubator to provide dynamic culture environment for microorganisms, through the shaking structure to drive the culture vessel for orbital shaking to improve the aeration and mass transfer rate inside the medium, suitable for microorganisms in high-density cultivation and process amplification in the production process.

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.



Convenient & Secure Observation:
A large triple-pane thermal-insulated viewing window paired with internal illumination ensures full visibility of the chamber interior

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 fully flushable base design eliminates cleaning dead corners completely.
Equipped with an integrated sloped structure, it enables efficient and rapid drainage

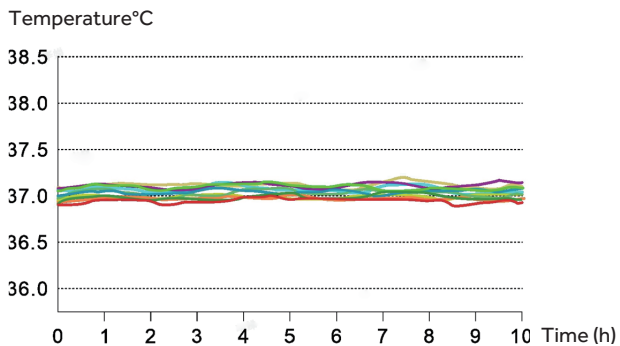
Product Feature

Precision Direct Drive Motor for Reliable, Accurate Speed Control:

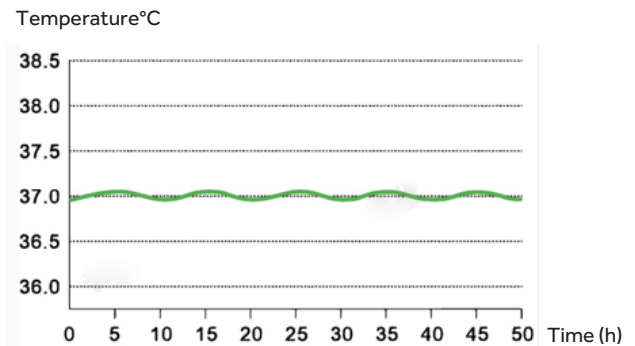
- Unrivalled Precision, Reliability & Low – Temperature
- Operation with Multiple Amplitudes for All Your Needs
- EMC Certified & Filter - Equipped to Minimize EM Interference

Durable construction, reliable performance:

- Durable powder-coated, cold-rolled steel exterior construction
- Precisely monitor and control chamber temperature over complete range with $\pm 0.1^{\circ}\text{C}$ accuracy at 37°C 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 8 steps, eight programs storable



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



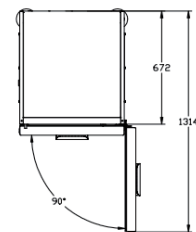
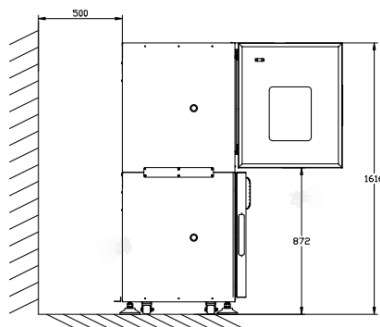
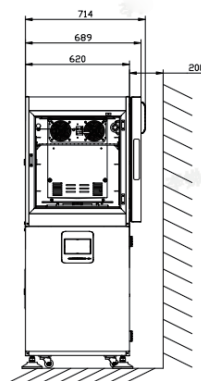
Temperature fluctuations $\pm 0.2^{\circ}\text{C}$

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

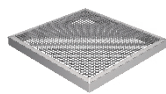
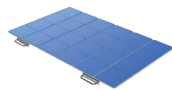
Product Dimensions

unit: mm



HYLP-135Q & HYLP-135C

Accessories

Universal Spring Clamps	HYLP-135Q	Picture
420 x 420mm	√	
Adhesive silicone pad (recommended speed <200rpm)	HYLP-135Q	Picture
140 x 140mm	Max. Qty 9	
Stainless steel conical flask clamps	HYLP-135Q	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-135Q	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-135Q	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		

Flexible Stackable Combination Solutions



Specifications

			HYLP-135Q
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)		≤52 dB(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
Container load (20'/40'/40'H)		42./84/84	
Shelves	Dimensions(w*d) mm		473*436
	Number Standard/Maximum		1 /6
	Max.Load per Shelf (kg)		10kg
Universal Platform	Dimensions(w*d) mm		420 x 420
	Number		1
	Max.Load (kg)		10
Electrical	Rated Voltage Power Supply (V/HZ)		220v/50/60hz
	Nominal Consumption (kw.h)		0.09 kWh/h (Test conditions: 37°C, 200 rpm, no load)
			2.16 kWh/24h (Test conditions: 37°C, 200 rpm, no load)
Control	Rated Power (W)		700
	Controller		Microprocessor
	Display		7 inch touch screen
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
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(csv format)
	Timer		standard: 999h59min
	Lighting		2W LED light with manual & automatic control
	Heated Visible Window		standard
	Clockwise/Anticlockwise 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 3 months
		Data recording interval	Adjustable
		Number of storable programs	8
		Program segments	8
		Program segment cycle times	999
Other	Certificate		CE

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