

Incubator Shakers

Scope of Application

Incubator Shakers is a kind of biological incubator to provide dynamic culture environment for microorganisms, through the oscillation structure to drive the culture vessel for orbital oscillation 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

- Growth of Bacteria or Yeast
- Protein Production
- Dissolution Studies
- Hybridizations
- Extractions
- DNA Production



HYP-380Q/260Q



Product Feature



High Precision of Temperature Uniformity

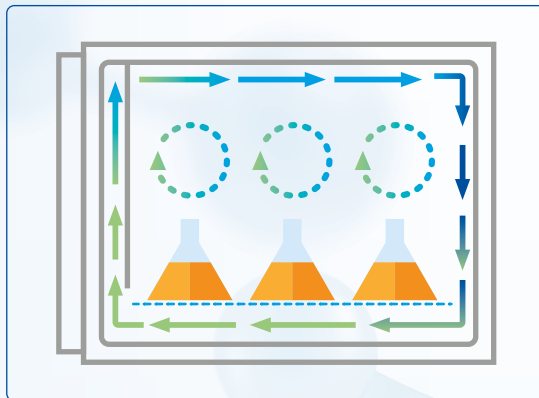


Stable and Efficient Operation



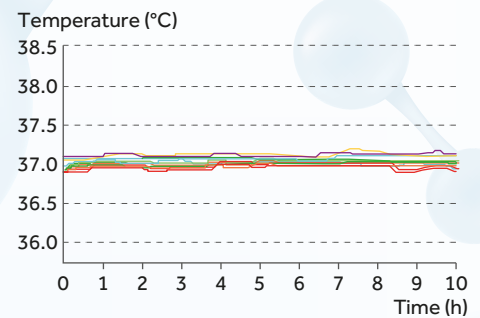
Ergonomic and Intuitive Handling

High Precision of Temperature Uniformity

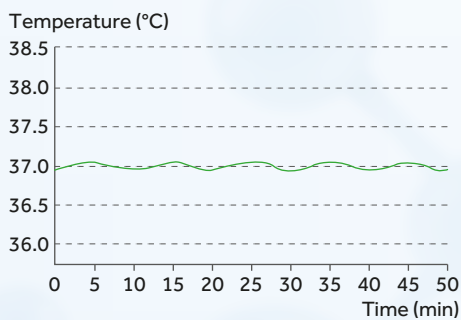


Fuzzy PID precision control
Cross-flow wind field air duct design, more uniform temperature inside the cabinet

Temperature fluctuation of the center point of the cabinet $\leq \pm 0.2^{\circ}\text{C}$
(at 37°C , test conditions: $\text{RT}22 \pm 3^{\circ}\text{C}$)



Test uniformity $\leq \pm 0.3^{\circ}\text{C}$ at 37°C (test conditions: $\text{RT}22 \pm 3^{\circ}\text{C}$)



| Stable and Efficient Operation

Multi-dimensional integrated eccentric self-balancing drive technology, strong load capacity, high speed and long-term operational stability

Units can be stacked two to three high for space savings with a speed range of 10 to 250 rpm ± 1 rpm

Customized high-quality servo motors, precise speed control system, stable performance and long life

Shaker door features a magnetic gasket for a tight seal, pneumatic dampers for smooth controlled opening, and hinges with counter- balance springs to ease door closing

Refrigeration system temperature zone design, to ensure that the temperature control of different working conditions is more accurate and stable

Abnormal power failure recovery function, after recovery in accordance with the original parameters to continue to run, to avoid the termination of the experiment and data loss due to power outages, computer crash

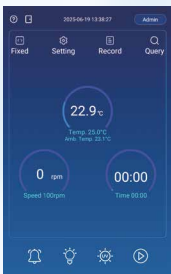
The whole machine through the electromagnetic compatibility EMC certification, equipped with filters, to reduce the outside world, their own electromagnetic interference; to ensure that the equipment runs more safely, stable

Ergonomic and Intuitive Handling

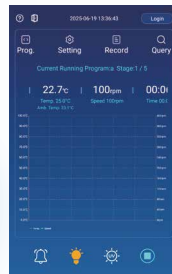
Ergonomically designed fold down door and rocker platform with one-touch pull-out locking; maximum platform height of 61" (154.9 cm) when stacked three units high improves sample handling

Intuitive operation by 10 inch touch interface

Logging of alarms, chamber temperature, rpm, door openings; Track temperature and RPM as chart on user interface or export data from the device; Access restriction to change settings by user management



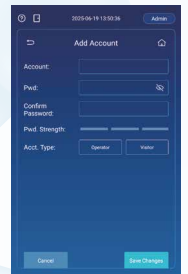
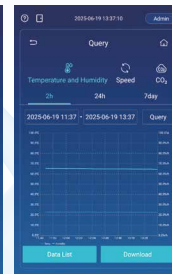
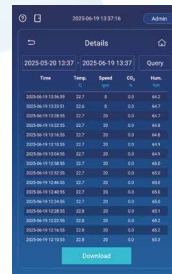
Parameter one-screen display



Real-time display of program segments and curves

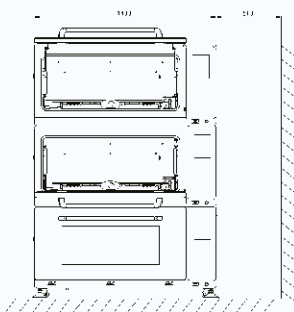


Operating data, events, alarms, curves

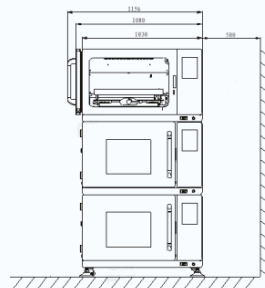
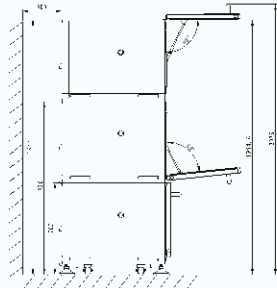


Three levels of authority

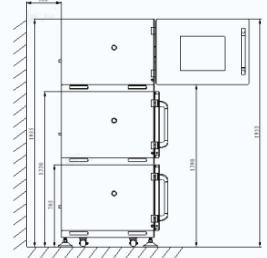
Product Dimensions



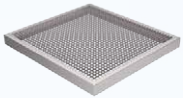
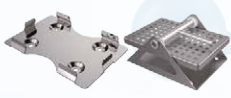
HYP-380Q



HYP-260Q



Accessories

Universal Spring Clamps	HYP-260Q	HYP-380Q	Picture
590 x 550mm	√	-	
890 x 550mm	-	√	
Adhesive silicone pad (recommended speed <200rpm)	HYP-260Q	HYP-380Q	Picture
140 x 140mm	Max. Qty 16	Max. Qty 24	
Stainless steel conical flask clamps	HYP-260Q	HYP-380Q	Picture
250ml	x 42	x 60	
300ml	x 38	x 60	
500ml	x 25	x 40	
1L	x 16	x 28	
2L	x 9	x 15	
3L	x 8	x 11	
5L(Thomson)	x 4	x 8	
Other specifications of flask clamps can be customized as needed (50mL-200mL)			
Adjustable-angle stainless steel test tube/centrifuge tube rack	HYP-260Q	HYP-380Q	Picture
W *D *H (mm)=305*82*100	Optional specifications, configure a maximum of 5	Optional specifications, configure a maximum of 7	
5ml tube (φ14mm×56)			
10ml tube/15ml centrifuge tube(φ16mm×56)			
15ml tube (φ18mm×33)			
15ml tube (φ22mm×30)			
50ml tube/50ml centrifuge tube (φ30mm×14)			
15ml centrifuge tube (φ18.5mm×36)			
10,15 ml centrifuge tube (φ15.5mm×56)			
20ml tube (φ21.5mm×30)			
Stainless Steel Hole Clamp	HYP-260Q	HYP-380Q	Picture
Universal Standard Deep Hole Plate	Optional according to user's demand	Optional according to user's demand	
W *D *H (mm)=130*100*65			
Universal Standard Microplate			
W *D *H (mm)=135*93*15			
Support stand	HYP-260Q	HYP-380Q	
W*D*H (mm)	990*800*400 (casters not included)	1360*800*400 (casters not included)	



Specifications

		HYP-380Q	HYP-260Q
Voltage/Frequency		220v/50Hz	220v/50Hz
			
Temperature Control			
Cooling	yes/no	yes	yes
Temp. minimum	°C	4(RT-20)	4(RT-20)
Temp. maximum	°C	65	65
Setting, digital	°C	0.1	0.1
Temperature uniformity @ 37° (RT22±3°C)	±°C	±0.3	±0.3
Power of heating (electric)	W	800	650
Power of cooling (electric)	W	165	165
Principle of temp. sensor	type	PT-1000	PT-1000
Gas circulation	m3/h	/	/
Shaking Control			
Motor	type	Multidimensional self-balancing	Multidimensional self-balancing
Shaking diameter	mm	26(standard)/50(optional)	26(standard)/50(optional)
Shaking motion	type	orbital	orbital
Shaking frequency range at 12.5 mm	rpm	/	/
Shaking frequency range at 26 mm	rpm	0/10-300(top layer 250)	0/10-300(top layer 250)
Shaking frequency range at 50 mm	rpm	0/10-250(top layer 200)	0/10-250(top layer 200)
Shaking frequency range at 70 mm	rpm	/	/
Tray size max.	mm	900*560	600*560
Loading max.	kg	35	25
Setting, digital	rpm	1	1
Accuracy absolute	±rpm	1	1
Timer	s:h	0-999h59min	0-999h59min
Acceleration		controlled	controlled
Active brake		adjustable	adjustable
Stop on position		no	no
Power of standard motor (EM-Z/ EM-Z (HP/HS))	W	250	250

General		HYP-380Q	HYP-260Q
Power consumption typical	W	/	/
Power consumption max.	W	/	/
Incubation gas volume	L	380	260
Net/Gross Weight (approx)	kg	248/295	180/220
	lbs	547/650	397/485
Illumination	type	LED	LED
Operation menu MMI		EN/CN	EN/CN
Operation menu Insight		EN	EN
Interface, standard		USB	USB
Interface, optional		RS485/Printer/Remote alarm	RS485/Printer/Remote alarm
Ambient temperature	°C	5-35	5-35
Cable feedthrough port	mm	26	26
Material incubation chamber		stainless steel	stainless steel
Material outer chamber		cold-rolled steel powder coated	cold-rolled steel powder coated
Useful height above shaker tray	mm	395	395
Door glass and frame		heated	heated
Packing dimensions (w*d*h) With packaging base	mm	1510*1000*850	1140*970*850
	in	59.5*39.4*33.5	44.9*38.2*33.5
Internal dimensions (w*d*h) Excluding hand and foot wheels	mm	one layer 1400*840*625	one layer 1030*840*625
		two layers 1400*840*1250	two layers 1030*840*1250
		three layers 1400*840*1875	three layers 1030*840*1875
	in	one layer 55.1*33.1*24.6	one layer 40.6*33.1*24.6
		two layers 55.1*33.1*49.2	two layers 40.6*33.1*49.2
		three layers 55.1*33.1*73.8	three layers 40.6*33.1*73.8
External dimensions (w*d*h)	mm	1510*1000*715	1140*970*715
	in	59.5*39.4*28.2	44.9*38.2*28.2
Refrigerant		R134A	R134A

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