

# 10. ROLLER CULTURE APPARATUS

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# Roller Culture Apparatus for Monolayer and Suspension Cell Cultures



<CG III-40-SF>

All wheel driving design prevents roller bottles from any slippery and loss of consistent and uniform rotation. Their speed range is suitable for both monolayer and suspension cell culture applications. The units can operate in temperature controlled and CO<sub>2</sub> environment.

Model	CG III-45-SF	CG III-40-SF	CG III-30-SF
Cell Culture Method	Monolayer and Suspension Cell Cultures		
Bottle Rotation Speed	1~990r/h(Φ110mm Bottle)		
Rotation Mode	Clockwise/Counter Clockwise Alternating Rotation(10°~180°)		
Acceptable Bottle Size	Φ108mm~Φ121mm, L≤495mm Standard Bottle:Φ110mm, L=490mm(3000ml)		
Bottle Positions per Deck	5	5	5
Bottle Positions	45	40	30
Material	Stainless Steel		
Digital Control Display	Speed/Angle/Time		
Fuse	4A250V		
Communication	RS 485		
Optional Accessory	RollerMate® Software		
Dimension External (WxDxH)	770x594x1850mm 30.31x23.39x72.83"	770x594x1668mm 30.31x23.39x65.67"	770x594x1304mm 30.31x23.39x51.34"
Max.Load	135	120	90
Environmental Temp.	5°C~70°C		
Relative Humidity	<90%		
Power	70W		
Power Supply	220V, 60Hz		
Weight	90 kg	85 kg	75 kg

# Roller Culture Apparatus for Monolayer and Suspension Cell Cultures



<CG III-45-F>

All wheel driving design prevents roller bottles from any slippery and loss of consistent and uniform rotation. Their speed range is suitable for both monolayer and suspension cell culture applications. The units can operate in temperature controlled and CO<sub>2</sub> environment.

Model	CG III-45-F	CG III-40-F	CG III-30-F	CG III-16-F
Cell Culture Method	Monolayer and Suspension Cell Cultures			
Bottle Rotation Speed	1~990r/h(φ110mm Bottle)			
Rotation Mode	Clockwise/Counter Clockwise Alternating Rotation(10°~180°)			
Acceptable Bottle Size	φ108mm~φ121mm, L≤495mm Standard Bottle:φ110mm, L=490mm(3000ml)			
Bottle Positions per Deck	5	5	5	4
Bottle Positions	45	40	30	16
Material	Aluminum			
Digital Control Display	Speed/Angle/Time			
Fuse	4A250V			
Communication	RS 485			
Optional Accessory	RollerMate® Software			
Dimension External (WxDxH)	797x598x1850mm 31.38x23.54x72.83 "	797x598x1671mm 31.38x23.54x65.79 "	797x598x1304mm 31.38x23.54x51.34"	672x598x936mm 26.46x23.54x36.85"
Max.Load	135	120	90	48
Environmental Temp.	5℃~70℃			
Relative Humidity	<90%			
Power	70W			
Power Supply	220V, 60Hz			
Weight	90 kg	85 kg	75 kg	70 kg

## Bench Top Roller Culture Apparatus



<CG-06-F>

The series of products is designed for small scaled cell cultures. These units can operate in regular CO<sub>2</sub> incubators.

Model	CG I -06-F	CG-06-F
Cell Culture Method	Monolayer Cultures	Suspension Cultures
Bottle Rotation Speed	3~60r/h(φ110mm Bottle)	60~900r/h(φ110mm Bottle)
Rotation Mode	Clockwise/Counter Clockwise Alternating Rotation(10 <sup>0</sup> ~180 <sup>0</sup> )	
Acceptable Bottle Size	φ100mm~φ113mm, L≤285mm Standard Bottle:φ110mm, L=285mm(1500ml)	
Bottle Positions per Deck	3	
Bottle Positions	6	
Material	Aluminum	
Digital Control Display	Speed/Angle/Time	
Fuse	4A250V	
Communication	RS 485	
Dimension External (WxDxH)	450x360x431.5mm 17.72x14.17x16.99"	
Max.Load	10 kg	
Environmental Temp.	5℃~70℃	
Relative Humidity	<90%	
Power	70W	
Power Supply	220V, 60Hz	
Weight	22 kg	

# Roll-in Incubators

(with or without CO<sub>2</sub> Controller)



<PY-30>

Model	PY-16	PY-30	PYC-16	PYC-30
Temp. Display	Digital			
Temp. Range	Environment Temperature +5°C~60°C			
Temp. Sensitivity	0.1°C			
Temp. Uniformity	±0.5°C(Environment Temp.: 25°C; Set: 37°C, No Load)			
Temp. Fluctuation	±0.2°C(Environment Temp.: 25°C; Set: 37°C, No Load)			
CO <sub>2</sub> Concentration Indicator	N/A		Digital display	
CO <sub>2</sub> Control Range	N/A		0-20%	
CO <sub>2</sub> Control Sensitivity	N/A		0.1% (at 5%)	
CO <sub>2</sub> Recovery Rate to 5%	N/A		<3min	
Return to 37°C after door opening	N/A		<10min	
CO <sub>2</sub> Sensor	N/A		Infrared	
Power Supply	220V, 60Hz			
Power	1250W			
Internal Dimensions (WxDxH)	745x690x1115mm 29.33x27.17x43.90"	870x690x1480mm 34.25x27.17x58.27"	745x690x1115mm 29.33x27.17x43.90"	870x690x1480mm 34.25x27.17x58.27"
Overall Dimensions (WxDxH)	845x885x1349mm 33.27x34.84x53.11"	970x885x1716mm 38.19x34.84x67.56"	845x885x1349mm 33.27x34.84x53.11"	970x885x1716mm 38.19x34.84x67.56"
Interior Wall	Mirror Grade Stainless Steel			
Door	Double Glass Window			
Alarm Function	Over-temperature, Temperature Sensor Malfunction, CO <sub>2</sub> Concentration Alarm			
Weight	175 kg	195 kg	175 kg	195 kg

## Accessories

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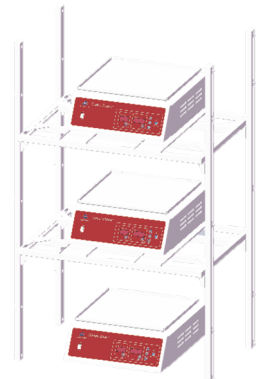
<5 Shelf Rack and Platforms>



<8 Shelf Rack and Platforms>



<Racks for Orbital Shaker, PY-30-S2>



<Racks for Orbital Shaker, PY-30-S7>



<Platforms>



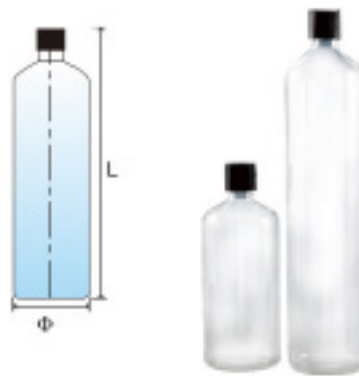
<Little Platforms>



<UV Light>

Model	Part Number	Applicable Product Type	Note
5 Shelf Rack and Platforms	PY-16-S1	PYC-16, PY-16	standard 2 platforms, the most place 5 units
8 Shelf Rack and Platforms	PY-30-S3	PYC-30, PC-30	standard 3 platforms, the most place 8 units
Racks for Orbital Shaker	PY-30-S2	PYC-30, PY-30	Can stack two shakers and two PY-30-S5. Fit to flask up to 5L capacity.
Racks for Orbital Shaker	PY-30-S7	PYC-30, PY-30	For 3 orbital shakers
Platforms	PY-30-S5	PYC-30, PY-30	For 8 Shelf Rack
Little Platforms	PY-16-S2	PYC-16, PY-16	For 5 Shelf Rack
UV Light	PY-30-S4	PYC-16/PYC-30, PY-16/PY30	N/A

# Glass Roller Culture Bottles



Crystal CellRoller® glass bottles are made of cell culture grade borosilicate glass material. The product is produced with precise internal and external dimensions, good optical clarity, smooth surface and free of glass imperfections for high cell yield. Its neck area is tapered for easy harvesting and cleaning.

Part Number	GP-1500	GP-3000	GP-10000	GP-15000
Diameter	Φ110mm / 4.33"	Φ110mm / 4.33"	Φ220mm / 8.66"	Φ220mm / 8.66"
Length	285mm	490mm	450mm	580mm
Volume	1500ml	3000ml	10000ml	15000ml