



SHAKING

I N C U B A T O R



FLOOR STANDING

Floor Standing Shaking Incubator (Front Loading) LFSIO-100 Series

Labocon Floor Standing Shaking Incubator LFSIO-100 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Features

- Stainless steel inner chamber and platform
- Door with wide observation window
- Adjustable counterbalance system provides vibration-free operation
- Smooth start and stop system prevents liquid spillage
- Microprocessor controller with timing function
- Large LCD display
- Refrigerant: CFC R134a
- High quality compressor and fan motor
- Interchangeable platforms for shaking-incubating different vessels
- Auto-controller of fan speed prevents damage to samples
- Digital control of time, temperature and shaking speed for accuracy and repeatability
- Safety door switch and auto pause operation when door is opened
- Optional
 - Temperature limit alarm
 - Programmable Temperature Controller
 - UV Sterilizer
 - Filter
 - RS485 Interface
 - Printer

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LFSIO-101	LFSIO-102	LFSIO-103
Capacity	-	-	-
Temp. Range	RT +5-65°C		
Temp. Accuracy	0.1°C		
Temp. Uniformity	0.1°C		
Temp. Fluctuation	±0.5°C		
Temp. Resolution	0.1°C		
Shaking Motion	Orbital		
Shaking Speed Range	20-300 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	20 rpm		
Shaking Orbit	20 mm		
Timer Range	0.1-999.9 h		
Shelves	1	2	
Load per Shelf	-	-	-
Platform Dimension	400x340 mm	400x340 mm	500x350 mm
Max. Vessel Height	None		
Inner Dimension	590X660X900 mm		670X660X1000 mm
Overall Dimension	635X714X1055mm		725X720X1150 mm
Power	750 W		1100 W
Power Supply	220 V,60 Hz		
Weight (Net/Gross)	121/138 kg		132/177 kg
Catalog No.	9172111250	9172112250	9172113250

Model	LFSIO-104	LFSIO-105	LFSIO-106
Capacity	-	-	-
Temp. Range	4-65°C		
Temp. Accuracy	0.1°C		
Temp. Uniformity	0.1°C		
Temp. Fluctuation	±0.5°C		
Temp. Resolution	0.1°C		
Shaking Motion	Orbital		
Shaking Speed Range	20-300 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	20 rpm		
Shaking Orbit	20 mm		
Timer Range	0.1-999.9 h		
Shelves	1	2	
Load per Shelf	-	-	-
Platform Dimension	400x300 mm	400x340 mm	500x350 mm
Max. Vessel Height	None		
Inner Dimension	630X610X880 mm	590X660X900 mm	670X660X1000 mm
Overall Dimension	830X710X1030 mm	635X714X1055 mm	725X720X1150 mm
Power	1150 W		1500 W
Power Supply	220 V,60 Hz		
Weight (Net/Gross)	115/155 kg	121/138 kg	140/185 kg
Catalog No.	9172114250	9172115250	9172116250

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-101, LFSIO-102, LFSIO-105	LP-31	50mlx29
	LP-32	100mlx18
	LP-33	250mlx11
	LP-34	500mlx7
	LP-35	1000mlx4
LFSIO-103, LFSIO-106	LP-36	50mlx37
	LP-37	100mlx22
	LP-38	250mlx14
	LP-39	500mlx10
	LP-40	1000mlx6

Floor Standing Shaking Incubator LFSIO-200 Series

Labocon Floor Standing Shaking Incubator LFSIO-200 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Features

- Stainless steel inner chamber and platform
- Door with wide observation window
- Adjustable counterbalance system provides vibration-free operation
- Smooth start and stop system prevents liquid spillage
- Microprocessor controller with timing function
- Large LCD display
- Refrigerant: CFC R134a
- High quality compressor and fan motor
- Interchangeable platforms for shaking-incubating different vessels
- Auto-controller of fan speed prevents damage to samples
- Digital control of time, temperature and shaking speed for accuracy and repeatability
- Safety door switch and auto pause operation when door is opened
- Optional
 - Temperature limit alarm
 - Programmable Temperature Controller
 - UV Sterilizer
 - Filter
 - RS485 Interface
 - Printer

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.

Specification

Model	LFSIO-201	LFSIO-202	LFSIO-203	LFSIO-204
Capacity				
Temp. Range	5-65°C	4-65°C	RT +5-65°C	4-65°C
Temp. Accuracy	0.1°C			
Temp. Uniformity	±1°C			
Temp. Fluctuation	±0.5°C			
Temp. Resolution	±0.1°C			
Shaking Motion	Orbital			
Shaking Speed Range	60-300 rpm			
Shaking Speed Accuracy	±1 rpm			
Shaking Speed Increment	1 rpm			
Shaking Orbit	20 mm			
Timer Range	0.1-999.9 h			
Shelves	-			
Load per Shelf	-	-	-	-
Platform Dimension	750x460 mm	750x460 mm	920x500 mm	920x500 mm
Max. Vessel Height	-			
Inner Dimension	-	-	-	-
Overall Dimension	-	-	-	-
Power	950 W	1200 W	1150 W	1400 W
Power Supply	220 V,60 Hz			
Weight (Net/Gross)	-	-	-	-
Catalog No.	9172121250	9172122250	9172123250	9172124250

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-201, LFSIO-202	LP-41	50mlx82
	LP-42	100mlx50
	LP-43	250mlx28
	LP-44	500mlx23
	LP-45	1000mlx15
	LP-46	2000mlx8
LFSIO-203, LFSIO-204	LP-47	50mlx116
	LP-48	100mlx66
	LP-49	250mlx45
	LP-50	500mlx28
	LP-51	1000mlx18
	LP-52	2000mlx13

Floor Standing Shaking Incubator LFSIO-300 Series

Labocon Floor Standing Shaking Incubator LFSIO-300 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Features

- Vertical double-layered framework
- Mirror stainless steel inner chamber with electrostatic spray plastics exterior
- Concave design switch with toughened glass observation window
- Forced convection ensures the temperature uniformity
- Micro-processing P.I.D controller
- Large LCD screen indicates preset and real parameters
- Programmable design can set 10 segments
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Bearing with special features like low-noise running, low friction, high operational speed and long service life is used
- Audio and visual alarm will be activated when shaking terminates
- Over-temperature audio and visual alarm
- Data can be stored and recovered on power or system failure
- Equipped with charging port, separate temperature limit switch, door switch and door lock
- Standard Platform Accessories:
 - For LFSIO-301: 250ml×20
 - For LFSIO-302: 250ml×52
 - For LFSIO-303: 250ml×35, 500ml×35
- Optional:
 - USB interface

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LFSIO-301	LFSIO-302	LFSIO-303
Capacity	198 L	399 L	600 L
Temp. Range	RT+8-60°C		
Temp. Accuracy	0.1°C		
Temp. Uniformity	±1(25°C)		
Temp. Fluctuation	±0.2 (37°C)		
Temp. Resolution	0.1°C		
Shaking Motion	Orbital		
Shaking Speed Range	30-300 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	1 rpm		
Shaking Orbit	26 mm		35 mm
Timer Range	0-1000 h		
Shelves	2 platforms		
Load per Shelf	-		
Platform Dimension	530×410 mm	754×478 mm	970×560 mm
Max. Vessel Height	-		
Inner Dimension	630×490×640 mm	860×580×800 mm	1100×565×830 mm
Overall Dimension	730×685×1300 mm	1200×740×1500 mm	1430×820×1590 mm
Power	1100 W	1500 W	1600 W
Power Supply	220 V, 60 Hz		
Weight (Net/Gross)	-		
Catalog No.	9172125127	9172126127	9172127127

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-301	LP-53	100mlx60
	LP-54	250mlx38
	LP-55	500mlx26
LFSIO-302	LP-56	100mlx104
	LP-57	250mlx66
	LP-58	500mlx50
	LP-59	750mlx36
	LP-60	1000mlx26
LFSIO-303	LP-61	100mlx164
	LP-62	250mlx90
	LP-63	500mlx74
	LP-64	750mlx52
	LP-65	1000mlx36

Floor Standing Shaking Incubator LFSIO-400 Series

Labocon Floor Standing Shaking Incubator LFSIO-400 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Features

- Stainless steel SUS304 interior and powder coated exterior
- Huge transparent windows for observation
- Installed with Fluorescent lamp 20W for clear observation
- Stable air circulation and maintenance of internal temperature distribution
- Tempered glass observation window
- Triple gravity balance rotation
- Refrigerant: CFC R134a
- Compressor with power outages for delayed start and timed defrost design
- Three-point bearing transmission is suitable for heavy loads and continuous function
- Micro-processing P.I.D environmental scanning controller with automatic audio and visual alarm
- Touch panel with LED display
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Safety switch immediately stops shaking when lid is open
- Automatic delay in start-up in case of power cut and a defrost timer
- Over heat and over low protector

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LFSIO-401	LFSIO-402	LFSIO-403	LFSIO-404
Capacity	150 L	175X2 L	560 L	819 L
Temp. Range	Ambient +5-70°C			
Temp. Accuracy	0.1°C			
Temp. Uniformity	±1°C			
Temp. Fluctuation	±0.5°C			
Temp. Resolution	±0.1°C			
Shaking Motion	Orbital			
Shaking Speed Range	30-300 rpm	20-250 rpm		
Shaking Speed Accuracy	±1 rpm			
Shaking Speed Increment	1 rpm			
Shaking Orbit	25 mm		50 mm	
Timer Range	999 h 999 m999 s			
Shelves	1		2	
Load per Shelf	-	-	-	-
Platform Dimension	480x380 mm	640x440 mm	600x480 mm	960x600 mm
Inner Dimension	600x500x500 mm	700x500x500 mm	830x580x1000 mm	1100x690x1100 mm
Overall Dimension	680x690x860 mm	780x690x1720 mm	910x785x1920 mm	1160x880x1730 mm
Power	-	-	-	-
Power Supply	220 V, 60 Hz			
Weight (Net/Gross)	86 kg	160 kg	280 kg	300 kg
Catalog No.	9172128584	9172129584	9172130584	9172131584

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-401	LP-66	125mlx30
	LP-67	250mlx20
	LP-68	500mlx12
	LP-69	1000mlx6
	LP-70	2000mlx5
	LP-71	3000mlx4
	LP-72	4000mlx2
	LP-73	5000mlx1
LFSIO-402	LP-74	125mlx40
	LP-75	250mlx28
	LP-76	500mlx20
	LP-77	1000mlx12
	LP-78	2000mlx6
	LP-79	3000mlx6
	LP-80	4000mlx2
	LP-81	5000mlx2

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-403	LP-82	125mlx48
	LP-83	250mlx30
	LP-84	500mlx20
	LP-85	1000mlx12
	LP-86	2000mlx9
	LP-87	3000mlx6
	LP-88	4000mlx6
	LP-89	5000mlx4
LFSIO-404	LP-90	125mlx78
	LP-91	250mlx50
	LP-92	500mlx36
	LP-93	1000mlx18
	LP-94	2000mlx10
	LP-95	3000mlx10
	LP-96	4000mlx8
	LP-97	5000mlx8

Floor Standing Shaking Incubator LFSIO-500 Series

Labocon Floor Standing Shaking Incubator LFSIO-500 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Features

- Stainless steel SUS304 interior and powder coated exterior
- Huge transparent windows for observation
- Installed with Fluorescent lamp 20W for clear observation
- Stable air circulation and maintenance of internal temperature distribution
- Tempered glass observation window
- Triple gravity balance rotation
- Three-point bearing transmission is suitable for heavy loads and continuous function
- Micro-processing P.I.D environmental scanning controller with automatic audio and visual alarm
- Touch panel with LED display
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Safety switch immediately stops shaking when lid is open
- Automatic delay in start-up in case of power cut and a defrost timer
- Over heat and over low protector

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.

Specification

Model	LFSIO-501	LFSIO-502	LFSIO-503	LFSIO-504
Capacity	150 L	175X2 L	560 L	819 L
Temp. Range	Ambient +5-70°C			
Temp. Accuracy	0.1°C			
Temp. Uniformity	±1°C			
Temp. Fluctuation	±0.5°C			
Temp. Resolution	±0.1°C			
Shaking Motion	- Orbital			
Shaking Speed Range	30-300 rpm	20-150 rpm		
Shaking Speed Accuracy	-			
Shaking Speed Increment	-			
Shaking Orbit	25 mm		50 mm	
Timer Range	999 h 999 m 999 s			
Shelves	2		1	
Load per Shelf	-	-	-	-
Platform Dimension	480x380 mm	640x440 mm	600x480 mm	960x600 mm
Inner Dimension	600x500x500 mm	700x500x500 mm	830x580x1000 mm	1100x690x1100 mm
Overall Dimension	680x690x860 mm	780x690x1720 mm	910x785x1920 mm	1160x880x1730 mm
Power	-	-	-	-
Power Supply	220 V, 60 Hz			
Weight (Net/Gross)	90 kg	170 kg	280 kg	300 kg
Catalog No.	9172132584	9172133584	9172134584	9172135584

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-501	LP-98	125mlx60
	LP-99	250mlx40
	LP-100	500mlx24
LFSIO-502	LP-101	125mlx(40x4sets)
	LP-102	250mlx(28x4sets)
	LP-103	500mlx(20x4sets)

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIO-503	LP-104	125mlx96
	LP-105	250mlx60
	LP-106	500mlx40
	LP-107	1000mlx24
	LP-108	2000mlx18
	LP-109	3000mlx12
	LP-110	4000mlx12
	LP-111	5000mlx8
LFSIO-504	LP-112	125mlx156
	LP-113	250mlx100
	LP-114	500mlx72
	LP-115	1000mlx36
	LP-116	2000mlx20
	LP-117	3000mlx20
	LP-118	4000mlx16
	LP-119	5000mlx16

Reciprocal-Floor Standing Shaking Incubator LFSIR-100 Series

Labocon Floor Standing Shaking Incubator LFSIR-100 Series provides a controlled environment for continuous growth of biological organisms. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. It is also equipped with universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.



Features

- Vertical double-layered framework
- Mirror stainless steel inner chamber with electrostatic spray plastics exterior
- Concave design switch with toughened glass observation window
- Forced convection ensures the temperature uniformity
- Micro-processing P.I.D controller
- Large LCD screen indicates preset and real parameters
- Programmable design can set 10 segments
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Bearing with special features like low-noise running, low friction, high operational speed and long service life is used
- Audio and visual alarm will be activated when shaking terminates
- Over-temperature audio and visual alarm
- Data can be stored and recovered on power or system failure
- Equipped with charging port, separate temperature limit switch, door switch and door lock
- Standard Platform Accessories:
 - For LFSIR-101: 250ml×20
 - For LFSIR-102: 250ml×52
 - For LFSIR-103: 250ml×35, 500ml×35
- Optional:
 - USB interface

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LFSIR-101	LFSIR-102	LFSIR-103
Capacity	198 L	399 L	600 L
Temp. Range	RT+8-60°C		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±1(25°C)		
Temp. Fluctuation	±0.2 (37°C)		
Temp. Resolution	0.1°C		
Shaking Motion	Reciprocal		
Shaking Speed Range	30-250 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	1 rpm		
Shaking Orbit	26 mm		35 mm
Timer Range	0-1000 h		
Shelves	2 platforms		
Load per Shelf	-		
Platform Dimension	530×440 mm	725×500 mm	950×590 mm
Max. Vessel Height	500ml flask (183mm)	1000ml flask (228mm)	
Inner Dimension	630×490×640 mm	860×580×800 mm	1100×565×830 mm
Overall Dimension	730×685×1300 mm	1200×740×1500 mm	1430×820×1590 mm
Power	1100 W	1500 W	1600 W
Power Supply	220 V, 60 Hz		
Weight (Net/Gross)	-		
Catalog No.	9172140127	9172141127	9172142127

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LFSIR-101	LP-120	100mlx60
	LP-121	250mlx38
	LP-122	500mlx26
LFSIO-401	LP-123	100mlx104
	LP-124	250mlx66
	LP-125	500mlx44
	LP-126	750mlx36
	LP-127	1000mlx26
LFSIO-401	LP-128	100mlx164
	LP-129	250mlx106
	LP-130	500mlx76
	LP-131	750mlx64
	LP-132	1000mlx40

Floor Standing Shaking Incubator (Top Loading) LTSIO-100 Series

Labocon Floor Standing Shaking Incubator LTSIO-100 Series combines uniform, reliable performance with low energy consumption. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. Highly efficient insulation guarantees homogenous temperature dispersion as well as reproducible cultivation results.

Features

- Stainless steel inner chamber and platform
- Door with wide observation window
- Adjustable counterbalance system provides vibration-free operation
- Smooth start and stop system prevents liquid spillage
- Microprocessor controller with timing function
- Large LCD display
- Refrigerant: CFC R134a
- High quality compressor and fan motor
- Interchangeable platforms for shaking-incubating different vessels
- Auto-controller of fan speed prevents damage to samples
- Digital control of time, temperature and shaking speed for accuracy and repeatability
- Safety door switch and auto pause operation when door is opened
- Optional
 - Temperature limit alarm
 - Programmable Temperature Controller
 - Filter
 - RS485 Interface
 - Printer

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LTSIO-101	LTSIO-102	LTSIO-103	LTSIO-104
Capacity	-	-	-	-
Temp. Range	RT +5-65°C		4-65°C	
Ambient Temp.	-			
Temp. Accuracy	0.1°C			
Temp. Uniformity	-			
Temp. Fluctuation	-			
Temp. Resolution	-			
Shaking Motion	-			
Shaking Speed Range	20-300 rpm			
Shaking Speed Accuracy	-			
Shaking Speed Increment	-			
Shaking Orbit	20 mm			
Timer Range	0.1- 999.9 h			
Shelves	-			
Load per Shelf	-			
Platform Dimension	750 x 460 mm	920 x 500 mm	750 x 460 mm	920 x 500 mm
Max. Vessel Height	-	-	-	-
Inner Dimension	-	-	-	-
Overall Dimension				
Power	700 W	1350 W	1000 W	1700 W
Power Supply	220 V, 60 Hz			
Weight (Net/Gross)	-	-	-	-
Catalog No.	9172143250	9172144250	9172145250	9172146250

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LTSIO-101, LTSIO-103	LP-133	50mlx82
	LP-134	100mlx50
	LP-135	250mlx28
	LP-136	500mlx23
	LP-137	1000mlx15
	LP-138	2000mlx8
LTSIO-102, LTSIO-104	LP-139	50mlx116
	LP-140	100mlx66
	LP-141	250mlx45
	LP-142	500mlx28
	LP-143	1000mlx18
	LP-144	2000mlx13

Floor Standing Shaking Incubator LTSIO-200 Series

Labocon Floor Standing Shaking Incubator LTSIO-200 Series combines uniform, reliable performance with low energy consumption. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. Highly efficient insulation guarantees homogenous temperature dispersion as well as reproducible cultivation results.

Features

- Mirror stainless steel inner chamber with electrostatic spray plastics exterior
- Concave design switch with toughened glass observation window
- Forced convection ensures the temperature uniformity
- Micro-processing P.I.D controller with automatic audio and visual alarm
- Large LCD screen indicates preset and real parameters
- Programmable design can set 10 segments
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Bearing with special features like low-noise running, low friction, high operational speed and long service life is used
- Acceleration control ensures soft start, smooth acceleration and security of samples
- Operating parameter locked by encryption prevents miss operation
- Audio and visual alarm will be activated when shaking terminates
- Over-temperature audio and visual alarm
- Data can be stored and recovered on power or system failure
- Equipped with charging port, separate temperature limit switch, door switch and door lock
- Standard Platform Accessories:
 - For LTSIO-201: 500ml×20
 - For LTSIO-202: 2000ml×6
 - For LTSIO-203: 2000ml×8
- Optional:
 - USB interface

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LTSIO-201	LTSIO-202	LTSIO-203
Capacity	197 L	280 L	340 L
Temp. Range	RT+8-60°C		
Ambient Temp.	10-30°C		
Temp. Accuracy	±0.1°C		
Temp. Uniformity	±1(25°C)		
Temp. Fluctuation	±0.2 (37°C)		
Temp. Resolution	0.1°C		
Shaking Motion	Orbital		
Shaking Speed Range	30-300 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	1 rpm		
Shaking Orbit	26 mm		
Timer Range	0-1000 h		
Shelves	1 platform		
Load per Shelf	-		
Platform Dimension	950×530 mm		970×605 mm
Max. Vessel Height	1000ml flask (228mm)	5000ml flask (393mm)	
Inner Dimension	1010×590×330 mm	1010×590×470 mm	1035×675×470 mm
Overall Dimension	1260×750×850 mm	1350×700×1000 mm	1380×800×1010 mm
Power	1100 W	1330 W	1500 W
Power Supply	220 V, 60 Hz		
Weight (Net/Gross)	-	-	-
Catalog No.	9172147127	917214827	9172149127

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LTSIO-201, LTSIO-202	LP-145	100mlx71
	LP-146	250mlx45
	LP-147	500mlx37
	LP-148	750mlx29
	LP-149	1000mlx18
LTSIO-202	LP-150	2000mlx15
	LP-151	3000mlx8
	LP-152	5000mlx7
LTSIO-203	LP-153	100mlx103
	LP-154	250mlx63
	LP-155	500mlx41
	LP-156	750mlx32
	LP-157	1000mlx22
	LP-158	200mlx15
	LP-159	3000mlx11
	LP-160	5000mlx7

Floor Standing Shaking Incubator LTSIO-300 Series

Labocon Floor Standing Shaking Incubator LTSIO-300 Series combines uniform, reliable performance with low energy consumption. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. Highly efficient insulation guarantees homogenous temperature dispersion as well as reproducible cultivation results.

Features

- Stainless steel SUS304 interior and powder coated exterior
- Installed with Fluorescent lamp 20W for clear observation
- Forced convection system ensures temperature uniformity
- Transparent glass observation window
- Refrigerant: CFC R134a
- Three-point bearing transmission is suitable for heavy loads and continuous function
- Micro-processing P.I.D environmental scanning controller with automatic audio and visual alarm
- Touch panel with LED display
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Safety switch immediately stops shaking when lid is open
- Automatic delay in start-up in case of power cut and a defrost timer
- Over heat and over low protector

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.



Specification

Model	LTSIO-301	LTSIO-302
Capacity	205 L	381 L
Temp. Range	Ambient + 5-70°C	
Temp. Accuracy	±0.1°C	
Temp. Uniformity	-	
Temp. Fluctuation	-	
Temp. Resolution	-	
Shaking Motion	Orbital	
Shaking Speed Range	20 to 300 rpm	
Shaking Speed Accuracy	-	
Shaking Speed Increment	-	
Shaking Orbit	50 mm	
Timer Range	999h / 999m/ 999s	
Shelves	-	
Load per Shelf	-	
Platform Dimension	600x480 mm	960x600 mm
Max. Vessel Height		
Inner Dimension	680x560x540 mm	1040x680x540 mm
Overall Dimension	1010x640x870 mm	1370x760x870 mm
Power	-	-
Power Supply	220 V, 60 Hz	
Weight (Net/Gross)	160 kg	270 kg
Catalog No.	9172150584	9172151584

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LTSIO-301	LP-161	125mlx48
	LP-162	250mlx30
	LP-163	500mlx20
	LP-164	1000mlx12
	LP-165	2000mlx9
	LP-166	3000mlx6
	LP-167	4000mlx6
	LP-168	5000mlx4
LTSIO-301	LP-169	125mlx96
	LP-170	250mlx60
	LP-171	500mlx40
	LP-172	1000mlx24
	LP-173	2000mlx15
	LP-174	3000mlx15
	LP-175	4000mlx12
	LP-176	5000mlx8

Reciprocal-Floor Standing Shaking Incubator LTSIR-100 Series

Labocon Floor Standing Shaking Incubator LTSIR-100 Series combines uniform, reliable performance with low energy consumption. It has a unique balance weighting system that accommodates varying capacities of flasks, tubes and other vessels which in turn allows smoother operation. Highly efficient insulation guarantees homogenous temperature dispersion as well as reproducible cultivation results.

Features

- Mirror stainless steel inner chamber with electrostatic spray plastics exterior
- Concave design switch with toughened glass observation window
- Forced convection ensures the temperature uniformity
- Micro-processing P.I.D controller with automatic audio and visual alarm
- Large LCD screen indicates preset and real parameters
- Programmable design can set 10 segments
- Brushless DC Motors: Low maintenance, no brush sparking, high operating speed, high efficiency, constant torque, constant speed of rotation
- Bearing with special features like low-noise running, low friction, high operational speed and long service life is used
- Acceleration control ensures soft start, smooth acceleration and security of samples
- Operating parameter locked by encryption prevents miss operation
- Audio and visual alarm will be activated when shaking terminates
- Over-temperature audio and visual alarm
- Data can be stored and recovered on power or system failure
- Equipped with charging port, separate temperature limit switch, door switch and door lock
- Standard Platform Accessories:
 - For LTSIO-101: 500ml×20
 - For LTSIO-102: 2000ml×6
 - For LTSIO-103: 2000ml×8
- Optional:
 - USB interface

Application

Labocon Shaking Incubator is suitable for cell culturing, cell aeration, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges, etc.

Specification

Model	LTSIR-101	LTSIR-102	LTSIR-103
Capacity	197 L	280 L	340 L
Temp. Range	RT+8-60°C		
Ambient Temp.	±0.1°C		
Temp. Accuracy	0.1°C		
Temp. Uniformity	±1(25°C)		
Temp. Fluctuation	±0.2 (37°C)		
Temp. Resolution	0.1°C		
Shaking Motion	Reciprocal		
Shaking Speed Range	30-250 rpm		
Shaking Speed Accuracy	±1 rpm		
Shaking Speed Increment	1 rpm		
Shaking Orbit	40 mm		
Timer Range	0-1000 h		
Shelves	1 platform		
Load per Shelf	-	-	-
Platform Dimension	-	-	-
Max. Vessel Height	920×560 mm		950×635 mm
Inner Dimension	1010×590×330 mm	1010×590×470 mm	1035×675×470 mm
Overall Dimension	1260×750×850 mm	1350×700×1000 mm	1380×800×1010 mm
Power	1100 W	1330 W	1600 W
Power Supply	220 V, 60 Hz		
Weight (Net/Gross)	-	-	-
Catalog No.	9172152127	9172153127	9172154127

Platform Accessories

For Model	Model	Description (Volume x No. of Flasks)
LTSIR-101, LTSIR-102	LP-177	100mlx75
	LP-178	250mlx45
	LP-179	500mlx35
	LP-180	750mlx35
	LP-181	1000mlx20
LTSIR-102	LP-182	2000mlx15
	LP-183	3000mlx8
	LP-184	5000mlx6
LTSIR-103	LP-185	100mlx109
	LP-186	250mlx63
	LP-187	500mlx41
	LP-188	750mlx35
	LP-189	1000mlx22
	LP-190	2000mlx15
	LP-191	3000mlx12
	LP-192	5000mlx7

Optional Accessories & Features

1. RS-232 Port and USB Port
2. PUF Insulation: 155 mm thickness* (cooled incubator only)
3. Universal Sticky Mate
4. Program temperature controller: 2 segments, each 8 points
5. Shaking Programming motor Controller: 9 segments/rotates to left or right to set auto-start on a schedule
6. Universal Spring rack (430x290mm, 580x460mm, 360x260mm, 410x410mm, 440x340mm)
7. Timer Switch & Indicator light
8. Viewing window with sliding door
9. Electrical Outlet inside the chamber
10. Change RPM to 500 and 400
11. Light set (2pc) with Timer and Switch
12. Buzzer Alarm after timer and overheat
13. Indicator light of low water level
14. Oven change max. temperature to 250degree Celsius.
15. UV light with switch and anti-UV film
16. Photosynthetic light with switch
17. Data transfer-D sub
18. Speed Controller
19. Remote Alarm System
20. Test Tube Racks/Culture tube Holder - variable size
21. 96 well Deep Well/ELISA Microplate Holder



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