



2018 Catalogue

 major
science

Innovative Life Sciences Tools

Cultivation Incubators

High Speed Tubular Centrifuge

FS-O-TC series

The High-Speed Tubular Centrifuge offers high-performance centrifugal phase separation solution for a variety of applications in the industries of biopharma, Chinese herbal therapy, dietary supplements, food & beverage and chemical engineering. This powerful but compact machine can separate as small as 1µm micro-sized particles, even highly corrosive material.

Design Features and Benefits

- Simple and robust design
- Suitable for using corrosive materials
- Small footprint
- Separation of small particles (to 1µm)
- High performance
- Compact design

Typical Applications

- Separation of viruses and bacteria
- Classification of biotechnological solutions
- Production of gamma-globulin
- Separation and clarification of lubricating oils, greases and solvents
- Concentration of essential oils
- Purification of fish oils
- Dehydration of varnishes and lacquers
- Clarification of fruit juices
- Chemical engineering
- Bio-pharmaceutical production



FS-O-TC

Specification

Cat. No.	FS-O-TC01	FS-O-TC02
Bowl Diameter	3" (75mm)	4.1" (105mm)
Bowl Cubage (L)	2	6
Material Of Bowl	316 stainless steel	316 stainless steel
Rotary Drum Of Bowl	17.7" (450mm)	29.2" (742mm)
Max. Speed (rpm)	20,000±500	16,000±500
Max. RCF (xg)	16,700	15,050
Pass Water Capacity (T/h) *	0.2	1.2
Product (L/h) **	20-100	100-900
Motor Power (kW)	1.2	3
Rated Voltage (V)	AV380	AV380
Weight	Approx. 551.2lb (250kg)	Approx. 1102.3lb (500kg)
Dimension (WxLxH)	26"x15.4"x47.2" (660×390×1200mm)	26.8"x17.7"x62.2" (680×450×1580mm)
Height Of Outlet	24.8" (630mm)	34.6" (880mm)
ID Of Inlet	Ø0.5" (12mm)	Ø0.5" (12mm)
ID Of Outlet	Ø1.3" (32mm)	Ø1.5" (38mm)

*T/h :Ton/hour

Winpact Shaker

WS-200 series



CE WS-200 / WS-201

The WS-200 shaker is developed to offer an integrated solution for every mixing requirement. With a large 18.1"X18.1" platform and a wide selection of labware holders, this versatile machine can accommodate five 2L flasks or any combination of labwares up to 30kg. This powerful machine is equipped with a maintenance-free brushless motor that permits the device to operate noiselessly even at 500rpm under programmable mode of operation or continuous mode up to 999hr.

Features

- Various speed settings from 20-500rpm
- Equipped with a robust brushless DC motor for economical and noiseless operation
- Two modes of operation available: programmable or continuous
- Versatile accessories available for advanced culturing solutions
- Auto detection and power shutdown to platform weight imbalance or belt breakage

Specification

Cat. No.	WS-200	WS-201
Description	Winpact Orbital Shaker (universal platform included)	Winpact Orbital Anti-moistured Shaker (universal platform included)
Platform Size	Approx. 18.1"x18.1" (460x460mm)	
Shaking Orbit	Approx. 0.7" (19mm)	
Speed Range	20-500rpm	
Speed Increment	1rpm	
Timer	999 (hr): 59 (min) / Continuous	
Display	3.5" Color TFT LCD screen	
Dimension (WxLxH)	Approx. 20.5"x24.4"x8.3" (520x620x210mm)	
Rated Voltage	100-240V~, 50 / 60Hz, 2A	
Loading Capacity *	Approx. 500rpm: 11" (5kg), 250rpm: 66.1" (30kg)	
Anti-moistured	N/A	Yes
Weight	Approx. 88.2lb (40kg)	

* Different flask will reduce the maximum speed.

* Accessories information, please refer to Page 8.

Winpact Shaking Incubator



SI-200

Major Science is introducing our newly innovated Winpact series shaking incubator. It provides you the stability and durability for all your fermentation and incubation needs. The system incorporate multi-safety features to put you at your ease of mind.

Features

- Special designed drainage channel protects the motor and inner circuitry from accidental spills
- Multiple early error-detection mechanisms ensure operators' safety and completeness of experiment despite malfunction
- Lab-proven superior temperature uniformity
- A wide selection of racks, holders, sticky pads and accessories provides all-ranged compatibility to cell cultivation labwares
- Automatic system shutdown in the event of system over-heating
- Sensitivity adjustable G-sensor with warning embedded for imbalance weight detection
- Programmable or continuous mode for personnel operation
- Brushless DC motor provides long and quiet operation, durable and maintenance-free usage
- Hermetic chamber design significantly reduces operation noise and enhances precise temperature control
- 2-point temperature calibration ensures high temperature performance



A spare air/gas inlet to create particular environment for specific kinds of cell/microbial

SI-200



Specification

Cat. No.	SI-200
Platform Size	Approx. 18.1"x18.1" (460x460mm)
Shaking Orbit	Approx. 0.7" (19mm)
Speed Range	20-500rpm
Speed Increment	1rpm
Communication Port	RS-485
External Temperature Probe	PT-100
Heating Temperature Range	Ambient +5°C to 65°C
Power	600W
Temp Accuracy And Uniformity	± 0.25°C at 37°C
Timer	999 (hr) : 59 (min) / Continuous
Display	3.5" Color TFT LCD screen
Dimension (WxLxH)	Approx. 23.2"x32.3"x20.9" (590x820x530mm)
Weight	Approx. 154.3lb (70kg)
Rated Voltage	110 / 220V~, 50 / 60Hz, 6.3A



Accessories



Universal platform
Cat. No.: SI-200-01



Adjustable angle tube rack (33x15ml)
Cat. No.: SI-200-02
*tube not included



Adjustable angle tube rack (16x50ml)
Cat. No.: SI-200-03



Universal spring rack
Cat. No.: SI-200-04



Sticky pad platform
Cat. No.: SI-200-05



Universal cushioned crossbar
Cat. No.: SI-200-06



Microplate holders
Cat. No.: SI-200-07
(platform not included)



Flask holder
Cat. No.: SI-200-08-13

Racks and Tray

* Different flask will reduce the maximum speed.

Cat. No.	Product Description	Max. Platform Capacity
SI-200-01	Universal platform	1
SI-200-02	Adjustable angle Tube Rack (33x15ml)	4
SI-200-03	Adjustable angle Tube Rack (16x50ml)	4
SI-200-04	Universal Spring Rack	2
SI-200-05	Sticky Pad platform	1
SI-200-06	Universal Cushioned Crossbar platform	1
PPL-04-SI-SI-200-3	Sticky pad 200x200mm	4

Microplate and flask holder

Cat. No.	Product Description	Max. Platform Capacity
SI-200-07	Microplate holder	9
SI-200-08	Flask holder, 50ml	52
SI-200-09	Flask holder, 125ml	25
SI-200-10	Flask holder, 250ml	25
SI-200-11	Flask holder, 500ml	16
SI-200-12	Flask holder, 1000ml	9
SI-200-13	Flask holder, 2000ml	5

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