



# 2016 Catalogue

 **major  
science**

*Innovative Life Sciences Tools*

## Cultivation Incubators

# High Speed Tubular Centrifuge

## FS-GQ series

The MS 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 material
- Small footprint
- Separation of small particles (to 1 µm)
- High performance
- Compact design

# Winpact Shaker

## WS-200 series

The MS WS-200 shaker is developed to offer an integrated solution for every mixing requirement. With a large 18.1" X 18.1" platform and a wide selection of labware holders, this versatile machine can accommodate up five 2L flasks or any combination of labwares up to 20 kg. 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 of platform imbalance and belt breakage with power shutdown strategy

### 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-GQ

### Specification

Cat. No.	FS-GQ105	FS-GQ105B	FS-GQ75	FS-GQ75B
Bowl Diameter (mm)	105	105	105	105
Bowl Cubage (L)	6	6	2	2
Material of bowl	SUS304	SUS316	SUS304	SUS316
Rotary drum of bowl (mm)	742	742	450	450
Max. speed (r/min)	16,000±500	16,000±500	20,000±500	20,000±500
Max. RCF	15,050 (×g)	15,050 (×g)	16,700 (×g)	16,700 (×g)
Pass Water Capacity (T/h) *	1.2	1.2	0.2	0.2
Product ** (L/h)	100-900	100-900	20-100	20-100
Motor Power (kW)	3	3	1.2	1.2
Rated Voltage (V)	AV380	AV380	AV380	AV380
Weight (kg)	500	500	250	250
Dimension (mm)	680×450 ×1580	680×450 ×1580	660×390 ×1200	660×390 ×1200
Height of outlet (mm)	880	880	630	630
ID of inlet (mm)	Φ12	Φ12	Φ12	Φ12
ID of outlet (mm)	Φ38	Φ38	Φ32	Φ32

\*\*Product varies from actual specific density, viscosity, separation demand of materials.

\*T/h :Ton/hour



WS-200



### Specification

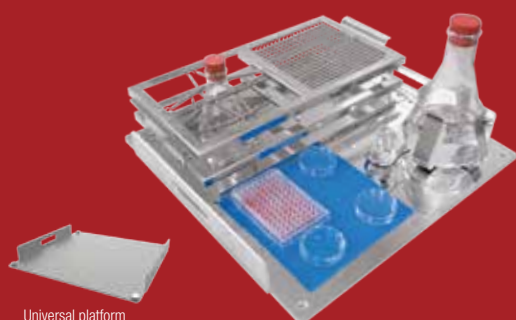
Cat. No.	WS-200
Platform size	18.1" x 18.1" (46x46cm)
Shaking orbit	3/4" (19mm)
Speed range (rpm)	20-500rpm
Speed increment	1rpm
Communication port	RS-485
Timer	999 (hr): 59 (min) / Continuous
Display	3.5" color TFT LCD screen
Dimension (WxLxH)	Approx. 23.2"x 32.3" x 22.4" (Approx. 59 x 82 x 57cm)
Weight	Approx. 110.2 lb (Approx. 50 kg)
Rated Voltage	110 / 220V~ 50 / 60Hz
Certification	CE, FCC



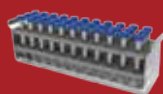
# Winpact Shaking Incubator

## SI-200 series

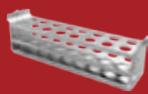
Major Science is introducing the newly innovated Winpact series Shaking Incubator. This ultimate shaking incubator provides you the stability and durability for all your fermentation and incubation needs. The system incorporates multiple safety features to put your mind at ease.



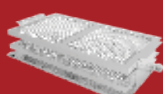
Universal platform  
Cat. No.: SI-200-01



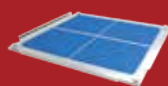
Adjustable angle  
tube rack (33x15ml)  
Cat. No.: SI-200-02  
\*tube not included



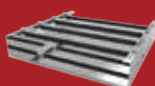
Adjustable angle  
tube rack (16x50ml)  
Cat. No.: SI-200-03



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)

### Features

- Special designed drainage channel protects the motor and inner circuitry from accidental spills
- Multiple early error-detection mechanisms ensure safety of operator and cultured cells in an event of device malfunctions
- Lab-proven superior temperature uniformity
- A wide selection of racks, holders, sticky pads and accessories provide all-ranged compatibility to cell cultivation labwares
- Automatic system shutdown in the event of system overheating
- Sensitivity adjustable G-sensor with warning embedded for imbalance weight detection
- Programmable or continuous modes of operation
- Brushless DC motor provides reliable and quiet operation, durable and maintenance-free usage
- Hermetic chamber design significantly enhances precise temperature control
- 2-point temperature calibration ensures high temperature performance
- Acrylic lid for clear viewing and easy access



SI-200

FC CE



### Specification

Cat. No.	SI-200
Platform size	18.1" x 18.1" (46x46cm)
Shaking orbit	3/4" (19mm)
Speed range (rpm)	20-500rpm
Speed increment	1rpm
Communication port	RS-485, PT-100
Heating temperature range	Ambient +5°C to 65°C
Power	600W
Temperature 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"x 32.3" x 22.3" (Approx. 59 x 82 x 53cm)
Weight	Approx. 154.3 lb (Approx. 70 kg)
Rated voltage	110 / 220V~ 50 / 60Hz
Loading Capacity	Approx. 44.1 lb (Approx. 20 kg) at 250rpm

### Racks and Tray

Cat. No.	Product Description	Max. platform capacity
SI-200-01	Universal platform	1
SI-200-02	Adjustable angle Tube Rack ( 33 x 15ml )	4
SI-200-03	Adjustable angle Tube Rack ( 16 x 50ml )	4
SI-200-04	Universal Spring Rack	2
SI-200-05	Sticky Pad platform	1
SI-200-06	Universal Cushioned Crossbar	1

### Microplate and flask holder

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

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