

SILENCER[®]

Centrifuges



Presenting the Silent Solution

The Silencer Series

S2110 Elite | S2210 | S2210R | S2310 | S2310R

S2110 ELITE



UNIT specifications

- > Direct drive system
- > Spill resistant control panel
- > Completely enclosed rotor chamber
- > Brushless DC motor
- > Digital speed display
- > Dual safety interlock to ensure lid is closed and locked
- > Digital time display
- > Microprocessor control
- > Lid interlock warning light
- > See-through high-strength lid
- > Timer range 1- 99 plus hold
- > Maintenance free
- > Completely enclosed rotor chamber* ***Patented Feature**

PERFORMANCE specifications

MAXIMUM SPEED	Horizontal rotor 4,500 RPM	Fixed angle rotor 5,000 RPM
MAXIMUM RCF	Horizontal rotor 3,060 x g	Fixed angle rotor 3,651 x g
APPROXIMATE ACCELERATION RATE	0 - 4,500 RPM : 10 seconds	
APPROXIMATE DECELERATION RATE	4,500 - 0 RPM : 25 seconds	
MAXIMUM NOISE LEVEL	Horizontal rotor 62 dBA	Fixed angle rotor 52 dBA
POWER REQUIREMENTS	115V, 5 AMPS	
DIMENSIONS	13"w x 15.5"d x 13.25"h	

S2210 / S2210R



UNIT specifications

- > Direct drive system
- > Spill resistant control panel
- > Completely enclosed rotor chamber*
- > Brushless DC Motor
- > Digital speed display
- > Dual safety interlock to ensure lid is closed and locked
- > Digital time display
- > Microprocessor control
- > Lid interlock warning light
- > See-through high-strength lid
- > Timer range 1- 99 plus hold
- > Automatic dynamic braking system with "OFF" switch
- > Rotor imbalance protection
- > Imbalance warning light
- > High-strength alloy rotor chamber with drain
- > Biohazard containment option is easily added
- > RCF display
- > Optional piston lid-assist
***Patented Feature**

PERFORMANCE specifications

MAXIMUM SPEED	Horizontal rotor 4,000 RPM	
MAXIMUM RCF	Horizontal rotor 3,200 x g	
APPROXIMATE ACCELERATION RATE	0 - 4,000 RPM : 60 seconds	
APPROXIMATE DECELERATION RATE	4,000 - 0 RPM Brake On: 60 seconds Brake Off:360seconds	
MAXIMUM NOISE LEVEL	58 dBA	Refrigerated 53 dBA
POWER REQUIREMENTS	115v, 10 amps	Refrigerated 115v, 15 amps
DIMENSIONS	19.25"w x 21.5"d x 16.5"h	Refrigerated 31.25"w x 21.5"d x 16.5"h

REFRIGERATED MODEL

- > Ozone-safe refrigeration system
- > True non-CFC refrigeration system
- > Digital temperature display (set point and active)
- > Non-skid work surface located to the right of lid opening



S2310 / S2310R



UNIT specifications

- > Direct drive system
- > Spill resistant control panel
- > Completely enclosed rotor chamber*
- > Brushless DC Motor
- > Digital speed display
- > Dual safety interlock to ensure lid is closed and locked
- > Digital time display
- > Microprocessor control
- > Lid interlock warning light
- > See-through high-strength lid
- > Timer range 1- 99 plus hold
- > Automatic dynamic braking system with "OFF" switch
- > Rotor imbalance protection
- > Imbalance warning light
- > High-strength alloy rotor chamber with drain
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*Patented Feature

PERFORMANCE specifications

MAXIMUM SPEED	Horizontal rotor 4,000 RPM
MAXIMUM RCF	Horizontal rotor 3,200 x g
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APPROXIMATE DECELERATION RATE	4,000 - 0 RPM Brake On: 60 seconds Brake Off: 360seconds
MAXIMUM NOISE LEVEL	58 dBA Refrigerated 53 dBA
POWER REQUIREMENTS	115v, 10 amps Refrigerated 115v, 15 amps
DIMENSIONS	19.25"w x 21.5"d x 32"h Refrigerated 19.25"w x 21.5"d x 32"h

REFRIGERATED MODEL

- > Ozone-safe refrigeration system
- > True non-CFC refrigeration system
- > Digital temperature display (set point and active)



ACCESSORIES



Horizontal Rotor

Catalog number 2100-101



Fixed-Angle Rotor

Catalog number 2100-104



Horizontal Rotor

Catalog number 2200-101

Shown with 2200-201 carriers,
2200-402 O-ring, 2200-502 biohazard covers, and misc inserts



Microplate Rotor

Catalog number 2200-102

4 plates 590 x g



Miscellaneous Inserts



Biohazard Covers & O-rings

Catalog number 2200-402, -502

Shown with 2200-201 carriers

ADAPTER SELECTION CHART

specifications

CATALOG NUMBER	2100-301	2200-301	2200-302	2200-303	2200-303*	2200-304	2200-305	2200-306†
MAX TUBE DIAMETER (mm)	13	10	13	16	16	30	64	13
MAX TUBE LENGTH (mm)	75	75	100	100	100/127	130	127	100
VOLUME (ml)	3/5	3	5/7	10	10/15	50	250	5/7
MAX NUM PER INSERT	—	37	26	19	12/7	5	1	19
MAX NUM PER ROTOR	—	148	104	76	48/28	20	4	76

* Insert may be used to spin a combination of 12 10ml- and 7 15ml-tubes per insert.

† Insert spins Hemogard tubes. Hemogard is a registered trademark of Becton-Dickinson.

DEMONSTRATION VAN

- > On-site demonstrations available
- > Available in contiguous 48 states
- > Please call Sales Center to schedule a demonstration today



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