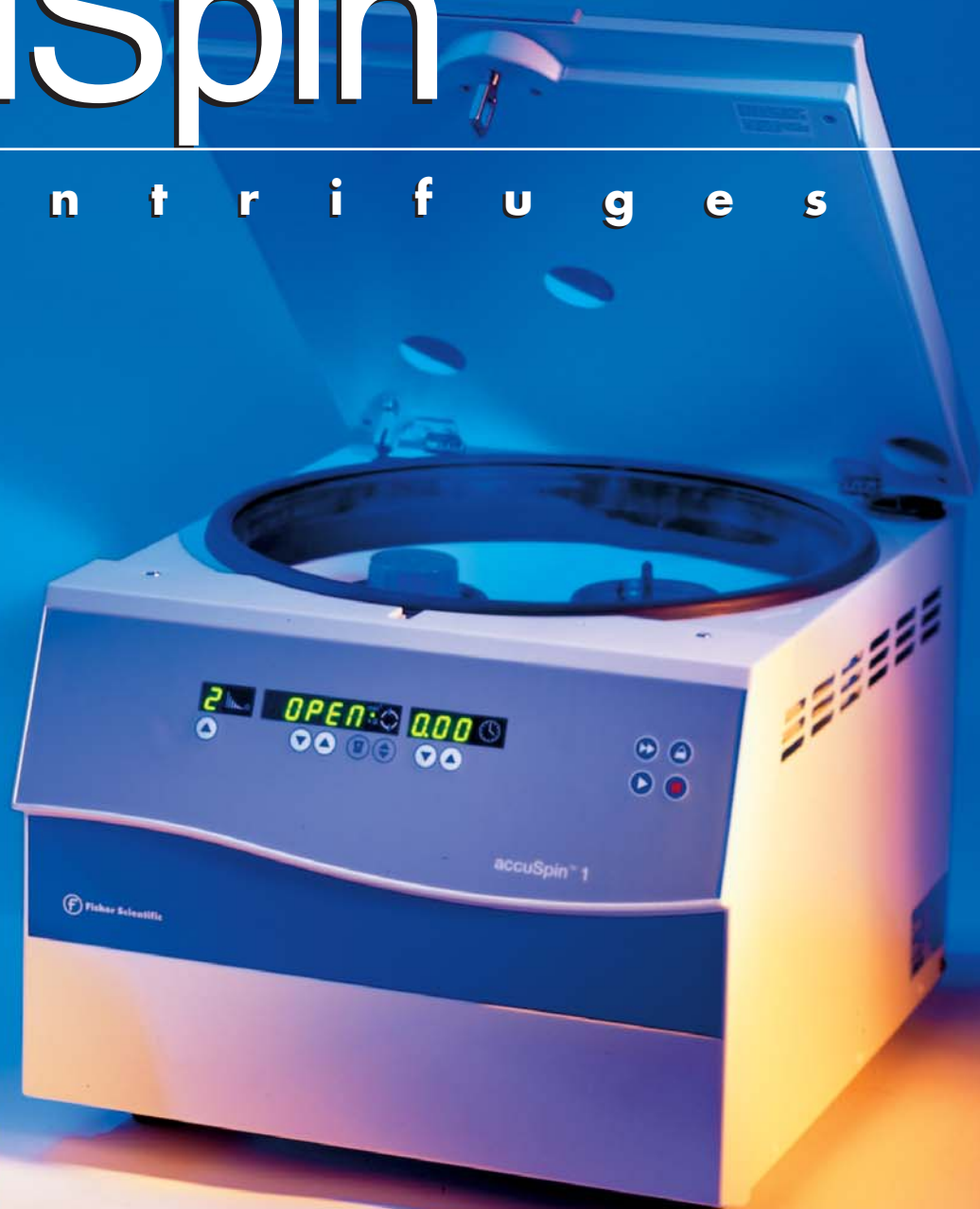


# accuSpin<sup>TM</sup>

c e n t r i f u g e s



# accuSpin™ Centrifuges Turn it up!

Electronic Lid Lock Mechanism

Automatic Rotor Recognition  
(models 400, 1 and 1R, 3 and 3R)

Load Imbalance  
Detection  
(models 400,  
1 and 1R,  
3 and 3R)

Quiet, Maintenance-Free  
Brushless Drive

Microprocessor  
Electronics

accuSpin 3R

CFC-Free Refrigerant  
(refrigerated models only)



Programmable (models 1, 3, and 3R)

Touch Keypad with LED Digital Display

## Turn on a Fisher accuSpin Centrifuge—and turn up your lab's performance!

All new, and designed with advanced operating and safety features, accuSpin Centrifuges are rugged, versatile, and so easy to use!

We built them in four sizes to handle different volumetric processes—from microliters up to three liters—so selection is a snap!

Whichever model you choose, your accuSpin centrifuge will give you the outstanding performance and exceptional value you expect from Fisher.

### Choosing a centrifuge: questions to ask

- What speed/force do my applications require? (*rpm or g-force*)
- How many samples must I process at a time?
- What tube/bottle sizes do I use? (*Volume capacity*)
- Do I use temperature-sensitive samples? (*Refrigeration*)
- Do I have space constraints? (*Unit size*)

**Tubes! Bottles! Microplates!**  
See page 10

### EASY TO CHOOSE

- Four model sizes—with capacities for microliter, 400mL, 1L, and 3L applications. Pick the model that suits your applications.

### EASY TO USE

- Microprocessor electronics allow you to work with precision
- Touch-keypad control with intuitive buttons and LED digital display have you running in moments
- Low-profiles and compact footprints fit crowded benchtops and hoods
- Easy to load/unload
- Programmability (select models) adds convenience
- Brushless maintenance-free drive motor

### SAFE OPERATION

- Conforms to international safety standards; CE, CSA, ISO9001, IEC 1010
- Load imbalance and rotor recognition (select models)
- Steel housing, armored chambers
- Electronic lid locks when operating



accuSpin 1

- 1.6L capacity
- Speeds to 15,000rpm (17,860xG) accuSpin 1R
- Speeds to 6000rpm (6240xG) accuSpin 1
- Microprocessor control with touch keypad
- LED digital display
- Quick-run feature for short spins
- Soft-brake gently slows sensitive samples
- Adjustable cutoff braking time
- Quiet, maintenance-free brushless motor
- Digital self-diagnostics and alert signal
- Model 1R: refrigerated (CFC-free)

## Mid Size Muscle

With more capacity (4 x 400mL) than typical mid range centrifuges, accuSpin 1 and accuSpin 1R offer incredible versatility and value. Ideal for all laboratory separation processes, they can accommodate microliter rotors, swinging-bucket rotors, microplate accessories, and provide biocontainment protection.

An optional microliter rotor is available for refrigerated accuSpin 1R. With this rotor, accuSpin 1R spins samples to 15,000rpm (17,860xG).

### accuSpin 1 and 1R Specifications

Drive	Brushless Induction Drive
Control	Microprocessor controlled; touch keypad
Max. speed	500–6000rpm (15,000rpm 1R)
Max. RCF	6240xG (17,860xG 1R)
Max. capacity	4 x 400mL
Acceleration/deceleration profiles	Normal or soft run; On/off brake and adjustable brake cutoff
Program memory	Last settings retained in memory
Dimensions (L x W x H)	accuSpin 1: 20 <sup>1</sup> / <sub>2</sub> x 18 <sup>1</sup> / <sub>8</sub> x 15 <sup>3</sup> / <sub>8</sub> in. (52 x 46 x 39cm) accuSpin 1R: 22 x 27 <sup>3</sup> / <sub>4</sub> x 15 <sup>3</sup> / <sub>8</sub> in. (56 x 71 x 39cm)
Weight	accuSpin 1: 121 lb. (55kg) accuSpin 1R: 229 lb. (104kg)
Run time	0–99 min., continuous operation
Temperature range (AccuSpin 1R)	0° to 40°C, CFC-free refrigerant
Design	Steel housing with armored chamber
Safety	Lid lock and lid interlock (Two automatic lid locks); imbalance cut-out

### Ordering Information

Model	Cat. No.
accuSpin 1 (120V, 60Hz)	13-100-582
accuSpin 1R (120V, 60Hz)	13-100-581

### Microliter Rotor 13-100-583 (for accuSpin 1R only)

Max. capacity	18 x 1.5/2.0mL
Max. speed	15,000rpm
Max. RCF	17,860xG
Min. temp at max. speed	<4°C
Max. acceleration time	20 sec.
Min. braking time	30 sec.
Max. radius	2 <sup>3</sup> / <sub>4</sub> in./71mm



accuSpin 1R

## Four-Place Swinging Bucket Rotor and Accessories

Rotor Body Cat. No. 13-100-584

Bucket type	Round Bucket	Rectangular Bucket	Microplate Carrier
Max. bucket capacity	1 x 400mL	1 x 150mL	2 plates
Max. rotor capacity	4 x 400mL	4 x 150mL	4 x 2 plates
Max. speed (1/1R)	4000rpm	4000rpm	4000rpm
Max. RCF (1/1R)	3345xG	3020xG	2800xG
Min. temp. at max. speed (1R only)	4°C	0°C	0°C
Max. radius	187mm	169mm	155mm
Biocontainment lids (pair)	13-100-586	included	n/a
Cat. No.	<b>13-100-585</b>	<b>13-100-587</b>	<b>13-100-588</b>

When ordering a swinging bucket rotor...be sure to order your rotor, buckets, lids, and adapters! (all sold separately)



## Sealed Rotor 13-100-589 (Buckets included)

Max. capacity	4 x 150mL
Max. speed	6000rpm
Max. RCF	6240xG
Min. temp at max. speed (1R only)	0°C
Max. acceleration time (1/1R)	70/75 sec.
Min. braking time (1/1R)	90/100 sec.
Max. radius	6.1 in./150mm

## Adapters for Swinging Bucket Rotor 13-100-584 with Round Bucket 13-100-585

Volume (mL)	1.5/2.0	7	5/7	15	10/15	10/15	25	50	50	100	250
Tubes per adapter	34	18	10	7	10	5	5	33	3	1	1
Tubes per rotor	136	72	40	28	40	20	20	12	12	4	4
Tube type <sup>1</sup>	ML	STD	BC	CON	BC	STD	STD	STD	CON	BOT	BOT
Max. tube L (mm) <sup>2</sup>	46	123	123	119	122	123	121	120	119	134	135
Max. tube dia. (mm)	11	13	14	17	17	16.5	25	34.5	29	45	62
Max. cap dia. (mm)	—	14	18	23	18	27.5	29	36	37.5	59	
Adapter color	black	yellow	gray	brown	red	orange	orange	green	green	blue	natural
Cat. No.											
(13-100-xxx)	<b>600</b>	<b>598</b>	<b>599</b>	<b>596</b>	<b>595</b>	<b>597</b>	<b>594</b>	<b>593</b>	<b>592</b>	<b>591</b>	<b>590</b>
Adapter shape <sup>3</sup>	F/C	F/R	F/R	F/R	F/R	C	F/R	F/R	F/C	F/R	F

## Adapters for Swinging Bucket Rotor 13-100-584 with Rectangular Bucket 13-100-587

Tube Volume (mL)	1.5	7	5/7	15	15	10/15	25	50	50	100
No. of slots	40	20	12	11	6	12	5	2	2	1
Tubes per rotor	160	80	48	44	24	48	20	8	8	4
Tube type <sup>1</sup>	ML	STD	BL	STD	CON	BC	STD	STD	CON	BOT
Max. tube L (mm) <sup>2</sup>	45	115	117	117	120	115	115	115	120	120
Tube bore (mm)	11	13	14	17	17	17	25	35	29.5	45
Cap dia. (mm)	—	14	18	19.5	22	18	25.5	36	37.5	48
Color	Black	Yellow	Gray	White	Brown	Red	Orange	Green	Grn. Yel.	Blue
Cat. No.										
(13-100-xxx)	<b>611</b>	<b>610</b>	<b>609</b>	<b>608</b>	<b>607</b>	<b>606</b>	<b>605</b>	<b>604</b>	<b>603</b>	<b>602</b>
Adapter shape <sup>3</sup>	C	F/R	F/R	F/R	C	F/R	F/R	F/R	C	R

## Adapters for Sealed Rotor 13-100-589

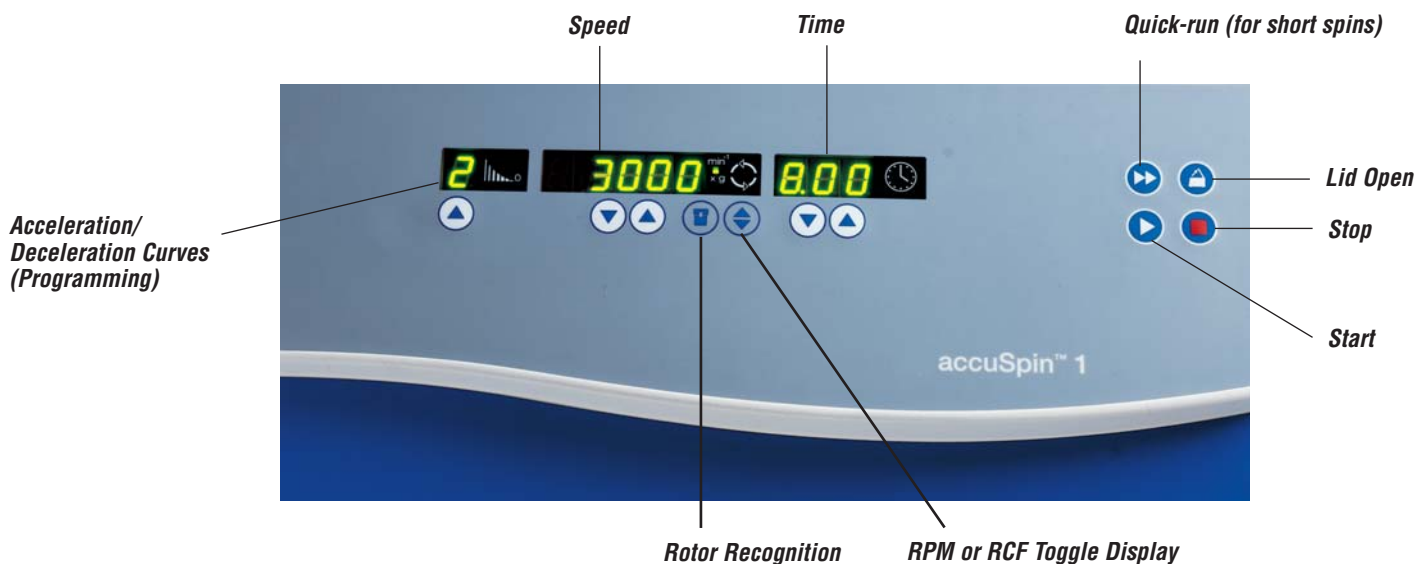
Tube Volume (mL)	1.5	7	5/7	15	15	10/15	25	25	50	50	100
No. of slots	40	20	12	11	4	12	5	4	2	2	1
Tubes per rotor	160	80	48	44	16	48	20	16	8	8	4
Tube type <sup>1</sup>	ML	STD	BL	STD	CON	BC	STD	STD	STD	CON	BOT
Max. tube L (mm) <sup>2</sup>	45	100	100	100	120	100	100	110	100	117	110
Tube bore (mm)	11	13	14	17	17	17	25	25.5	35	29.5	45
Cap dia. (mm)	—	14	18	19.5	22	18	25.5	31	36	37.5	48
Color	Black	Yellow	Gray	White	Brown	Red	Orange	Green	Green	Grn. Yel.	Blue
Cat. No.											
(13-100-xxx)	<b>611</b>	<b>610</b>	<b>609</b>	<b>608</b>	<b>655</b>	<b>606</b>	<b>605</b>	<b>657</b>	<b>604</b>	<b>603</b>	<b>602</b>
Adapter shape <sup>3</sup>	C	F/R	F/R	F/R	C	F/R	F/R	F/R	R	F/C	R

<sup>1</sup> ML = microliter tube; STD = standard borosilicate glass tubes; BL = blood collection tube; CON = conical tissue culture tube; PYR = round bottom Pyrex glass. BOT = Bottle.

<sup>2</sup> Max. tube length when biocontainment lid is used.

<sup>3</sup> C = Conical; F = Flat; R = Round

# accuSpin Centrifuges



## accuSpin Specifications

Category	Model	Fisher Cat.No.	Max. Speed (rpm)	Max. RCF (xG)		Available Rotors		Max. RCF (xG)	Dimensions L x W x H (in.)
				Swinging Bucket	Fixed Angle	Cat. No.	Capacity		
MICRO	accuSpin Micro	13-100-510	13,000	N/A	16,060	Included 13-100-650	24 x 1.5/2.0mL (FA)* 4 x 8 PCR <sup>†</sup> strips (FA)*	16,060 12,846	13 x 10 x 8
REFRIGERATED MICRO	accuSpin Micro R	13-100-511	13,000	N/A	16,060	Included 13-100-650	24 x 1.5/2.0mL (FA)* 4 x 8 PCR strips (FA)*	16,060 12,846	18 x 11 <sup>1</sup> / <sub>2</sub> x 12
SMALL CAPACITY	accuSpin 400	13-100-557	13,000	2590	16,060	13-100-558 13-100-559 13-100-569	24 x 1.5/2.0mL (FA)* 6 x 50mL (FA)* 4 x 100mL (SB)*	16,060 10,015 2590	18 <sup>3</sup> / <sub>4</sub> x 15 x 12 <sup>3</sup> / <sub>8</sub>
MEDIUM CAPACITY	accuSpin 1	13-100-582	6000	6240	N/A	13-100-583 13-100-584 13-100-584 13-100-589	18 x 1.5/2.0mL (FA)* 4 x 400mL (SB)* 4 x 150mL (SB)* 4 x 150mL Sealed (SB)*	17,860 3345 3220 6240	20 <sup>1</sup> / <sub>2</sub> x 18 <sup>1</sup> / <sub>8</sub> x 15 <sup>3</sup> / <sub>8</sub>
REFRIGERATED MEDIUM CAPACITY	accuSpin 1R	13-100-581	15,000	6240	17,860	13-100-583 13-100-584 13-100-584 13-100-589	18 x 1.5/2.0mL (FA)* 4 x 400mL (SB)* 4 x 150mL (SB)* 4 x 150mL Sealed (SB)*	17,860 3345 3220 6240	22 x 27 <sup>3</sup> / <sub>4</sub> x 15 <sup>3</sup> / <sub>8</sub>
LARGE CAPACITY	accuSpin 3	13-100-517	4150	3700	N/A	13-100-518 13-100-518	4 x 750mL (SB)* 4 x 250mL (SB)*	3700 2990	26 <sup>1</sup> / <sub>4</sub> x 21 <sup>3</sup> / <sub>4</sub> x 14 <sup>1</sup> / <sub>4</sub>
REFRIGERATED LARGE CAPACITY	accuSpin 3R	13-100-516	15,000	3700	21,890	13-100-518 13-100-518 13-100-524	4 x 750mL (SB)* 4 x 250mL (SB)* 24 x 1.5/2.0mL (FA)*	3700 2990 21,890	26 <sup>1</sup> / <sub>4</sub> x 28 <sup>3</sup> / <sub>4</sub> x 14 <sup>1</sup> / <sub>4</sub>

\* Rotor buckets and adapters sold separately. (FA) = Fixed Angle (SB) = Swinging Bucket

† The Polymerase Chain Reaction (PCR) process is covered by U.S. Patents 4,683,202; 4,683,195; and 4,965,188 or their foreign counterparts owned by Roche Molecular Systems, Inc. and F. Hoffman-La Roche Ltd.

accuSpin™ centrifuges are warranted by a full 12-month parts and labor program.



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