



*Streamline Cell and General Separations*

**ALLEGRA® X-12 SERIES**

**BENCHTOP CENTRIFUGES**



# Streamline Separations • Save

Whether harvesting cells, separating blood components or other general separations – you can simplify your processes and save time with the Allegra® X-12 Series Benchtop Centrifuges. Offering a maximum capacity of 4 x 750 mL, these centrifuges specialize in streamlining cell and general separations.

## ELIMINATE STEPS IN YOUR CULTURING PROCESS WITH EXCLUSIVE CELL CULTURE FLASK ADAPTERS\*

By direct centrifugation of cell culture flasks, Allegra X-12 Series centrifuges eliminate the entire transfer step to and from conical tubes for cell separation:

- *Saving Transfer Time and Labor*
- *Eliminating the use of 15 mL or 50 mL Conical Tubes*
- *Reducing a Potential Contamination Step*

For more information on cell culture flask adapters, please visit [www.beckmancoulter.com/X12](http://www.beckmancoulter.com/X12).

## AUTOMATICALLY CORRECT IMBALANCE WITH ARIES™ SMART BALANCE SYSTEM (SX4750A)

Exclusive ARIES 4 x 750 mL Self-Balancing Rotor:

- *Automatically Corrects for up to 50 Grams of Imbalance in Opposing Loads – and Continues the Run Without Shutdown*
- *“Eye Balance” Samples Instead of Weighing – Saving Valuable Time*



## ENHANCE EASE-OF-USE WITH FEATURES NOT TYPICALLY FOUND IN BENCH CENTRIFUGES

- *Numerical Key Pad for Easy & Quick Value Entry*
- *Control Temperature for up to 10 Minutes After the Rotor has Stopped, for Walk-Away Flexibility*
- *Automatic Initial “Soft Start” to Ensure Sample Integrity*



## FURTHER INCREASE CONVENIENCE WITH . . .

- *10 User-Defined Programs*
- *10 Independent Acceleration/11 Independent Deceleration Profiles*
- *The Ability to Set by RPM, RCF and Toggle Between Display Modes*
- *Time Options: Set, Hold or Pulse (for Short Runs)*
- *Automatic Rotor Identification*
- *Audible End-of-Run Tone*

## OPTIMIZE THE USE OF POPULAR LABWARE FOR CELL AND GENERAL SEPARATIONS

4 x 750 mL Swinging Bucket Rotors (Standard & ARIES Self-Balancing) – 3,750 RPM; 3,270 x g

Adapters to Accommodate:

- *Corning\*\* 75 cm<sup>2</sup> and 25 cm<sup>2</sup> Canted-Neck Cell Culture Flasks*
- *750 mL Flat-Bottom, 500 mL (Conical & Flat-Bottom) and 250 mL (Conical & Flat-Bottom) Bottles*
- *15 mL (Conical & Round) Tubes*
- *50 mL (Conical & Round) Tubes*
- *Blood Bags*
- *Vacutainer Tubes (3 mL, 5 mL, 7 mL and 10 mL)*
- *1.5 mL Tubes*
- *And More*



# Save Time • Boost Convenience



## BIOCONTAINMENT – VARIETY OF OPTIONS

– EACH INDEPENDENTLY CERTIFIED BY CAMR, PORTON DOWN, UK

- Bio-Certified<sup>†</sup> Covers for Round Buckets on 4 x 750 mL Standard and ARIES Rotors
  - Accommodate Specified Labware in Both Versions
- Exclusive Bio-Certified<sup>†</sup> Aerosolve™ Canisters
  - Clear Plastic for Viewing from Top and Bottom
  - Compatible with 4 x 750 mL Standard and ARIES Rotors
- Bio-Certified<sup>†</sup> 6 x 100 mL Fixed Angle Rotor

## POPULAR 96-WELL LABWARE FOR CELLULAR ASSAYS AND QUICK MICROPLATE SPINS

Optional Microplate Carrier for Standard 4 x 750 mL Rotor (SX4750)

- 12 Standard Microplates, 4 Deep-Well/Square-Well Plates, 4 of 96-Tube Racks
- 3,750 RPM, 2,890 x g

## CONTINUE THE SIMPLICITY IN DOWN STREAM APPLICATIONS

6 x 100 mL Fixed Angle Rotor – 10,200 RPM; 11,400 x g

- Further Isolate Biomolecules
- Clearing of Media, Cell Debris, Lysate, Tissue Homogenates
  - 100 mL, 94 mL, 85 mL Bottles
  - 50 mL & 15 mL (Conical & Round) Tubes
  - Centrifugal Filter Devices
  - 1.5 mL Tubes
  - And More



## AVAILABLE IN BOTH REFRIGERATED (ALLEGRA X-12R) AND CONSTANT CONTROLLED TEMPERATURE (ALLEGRA X-12) VERSIONS.

The Allegra X-12R Refrigerated Centrifuge allows selection of temperature within the range of -10°C to 40°C.

The Allegra X-12 Constant Controlled Temperature Centrifuge is preset to 20°C and automatically controls temperature within the range of 18°C to 22°C. Versus a traditional "non-refrigerated" centrifuge, you can be assured your sample will run no lower than 18°C and no higher than 22°C.

## SPECIFICATIONS

	ALLEGRA® X-12R	ALLEGRA® X-12
Refrigeration	Yes, CFC-Free	Constant Controlled Temperature
Maximum Speed	10,200 rpm (Fixed-angle)	10,200 rpm (Fixed-angle)
Maximum g-Force	11,400 x g (Fixed-angle)	11,400 x g (Fixed-angle)
Maximum Capacity	4 x 750 mL	4 x 750 mL
Run Time	Timed (Up to 9 hours, 59 min) Hold, Pulse (Short Run)	Timed (Up to 9 hours, 59 min) Hold, Pulse (Short Run)
Drive	Brushless Induction	Brushless Induction
Noise at Max Speed	≤68 dBA	≤68 dBA
User-Defined Programs	10	10
Accel/Decel Profiles	10/11	10/11
Temperature Range	-10°C to +40°C (selectable)	+18°C to +22°C (preset)
Dimensions (cm)	76.2W x 62.2D x 34.3H	76.2W x 62.2D x 34.3H
Dimensions (in)	30W x 24.5D x 13.5H	30W x 24.5D x 13.5H
Weight without Rotor	121 kg (267 lbs)	121 kg (267 lbs)

# ORDERING INFORMATION

PART NO.	DESCRIPTION	Max. SPEED(rpm)	Max. RCF, g
<b>INSTRUMENT</b>			
392302	Allegra X-12R Centrifuge, 208V	Swinging Bucket/Fixed Angle 3,750 / 10,200	Swinging Bucket/Fixed Angle 3,270 / 11,400
392304	Allegra X-12R Centrifuge, 230V	3,750 / 10,200	3,270 / 11,400
392303	Allegra X-12R Centrifuge, 200V	3,750 / 10,200	3,270 / 11,400
392472	Allegra X-12 Centrifuge, 208V	3,750 / 10,200	3,270 / 11,400
392474	Allegra X-12 Centrifuge, 230V	3,750 / 10,200	3,270 / 11,400
392473	Allegra X-12 Centrifuge, 200V	3,750 / 10,200	3,270 / 11,400
<b>SWINGING BUCKET ROTORS</b>			
369702	4x750 mL Swinging Bucket Rotor Assembly w/o Bucket Covers (SX4750)	3,750	3,270
369704	4x750 mL ARIES Self-Balancing Swinging Bucket Rotor Assembly	3,750	3,270
392805	Bio-Certified <sup>†</sup> Covers for SX4750 and SX4750A (Set of 2)		
392806	Microplate Carriers for SX4750μ Rotor, 16 Standard Microplates, 4 Deep-well/Square-well Plates, 4 of 96-Tube Racks (SX4750μ) (Set of 2)	3,750	2,890
393070	Bio-Certified <sup>†</sup> Covers for SX4750μ Microplate Carriers (Set of 2)		
392873	Replacement Carriages for SX4750μ Microplate Carriers, Includes Rubber Pads (Set of 2)		
<b>FIXED ANGLE ROTOR</b>			
369735	Bio-Certified <sup>†</sup> 6x100 mL Fixed Angle Rotor (FX6100)	10,200	11,400

PART NO.	VOLUME	DIAMETER(mm)	COLOR	BUCKET/ADAPTER CAPACITY	ROTOR CAPACITY
<b>ACCESSORIES AND ADAPTERS FOR SWINGING BUCKET ROTORS (SX4750 AND SX4750A)</b>					
<i>All racks and adapters accommodate round bottom tubes unless otherwise noted.</i>					
<b>ADAPTERS FOR DIRECT CENTRIFUGATION OF CELL CULTURE FLASKS</b>					
369292 (pk. of 2)	Corning I75 cm <sup>2</sup> Canted-Neck Cell Culture Flasks**	NA	Orange	1	4
369295 (pk. of 2)	Corning 25-cm <sup>2</sup> Canted-Neck Cell Culture Flasks	NA	Green	2	8
<b>MODULAR DISK ADAPTERS FOR TUBES</b>					
359469 (pk. of 2) & 359148 (pk. of 4)	3 mL & 5 mL	10 & 12	Blue	37	148
343108 (each)	Tube Decanter for PN 359469 & 359148	NA	NA	NA	NA
354111 (each)	1.5 mL Adapter Plate for PN 359469 & 359148	NA	NA	NA	120
359478 (pk. of 2) & 359157 (pk. of 4)	3 mL & 5 mL	13	Tan	30	120
359470 (pk. of 2) & 359149 (pk. of 4)	7 & 10 mL	14	Orange	24	96
359471 (pk. of 2) & 359150 (pk. of 4)	12 mL	16	Purple	19	76
359472 (pk. of 2) & 359151 (pk. of 4)	15 mL Conical	18	Green	14	56
359473 (pk. of 2) & 359152 (pk. of 4)	15 mL & 20 mL	18	Green	14	56
359474 (pk. of 2) & 359153 (pk. of 4)	50 mL	29	Yellow	7	28
359476 (pk. of 2) & 359155 (pk. of 4)	50 mL	35	Dark Blue	4	16
359477 (pk. of 2) & 359156 (pk. of 4)	100 mL	44	Brown	2	8
<b>SOLID ADAPTERS</b>					
393266 (pk. of 2)	50 mL Conical	30	Grey	7	28
393267 (pk. of 4)	50 mL Conical	30	Grey	7	28
<b>ADAPTERS FOR BOTTLES &amp; BLOOD BAGS</b>					
356983 (each)	230 mL Conical (Insert for Use with 349946)	62	Orange	1	4
349946 (each)	250 mL Flat Bottom	62	Yellow	1	4
349849 (each)	250 mL Conical	62	Warm Red	1	4
349846 (each)	750 mL Flat Bottom (or 500 mL Corning Conical w/Adapter)	96	Blue	1	4
356856 (each)	Single or Double Pack Blood Bag	NA	Yellow	1	4
356857 (each)	Triple or Quad Pack Blood Bag	NA	Orange	1	4
<b>BIO-CERTIFIED<sup>†</sup> AEROSOLVE CANISTERS AND TUBE RACKS</b>					
359481 (pk. of 2) & 359232 (pk. of 4)	Bio-Certified <sup>†</sup> Aerosolve Canisters	NA	NA	NA	NA
354495 (each)	1.5 mL	11	White	24	96
359482 (pk. of 2) & 359160 (pk. of 4)	3 & 5 mL	12	Blue	24	96
359489 (pk. of 2) & 358993 (pk. of 4)	5 mL	12	Tan	24	96
359483 (pk. of 2) & 359161 (pk. of 4)	10 mL	14	Orange	18	72
359484 (pk. of 2) & 359162 (pk. of 4)	12 mL, 3 & 5 mL	16,12	Purple	12,6	48, 24
344517 (each)	15 mL	14	White	10	40
359485 (pk. of 2) & 359163 (pk. of 4)	15 & 20 mL Round, 3 & 5 mL	18, 12	Green	12,6	48, 24
359487 (pk. of 2) & 358991 (pk. of 4)	15 mL Conical, 3 & 5 mL Round	17, 12	Light Green	6,6	24, 24
359486 (pk. of 2) & 359164 (pk. of 4)	50 mL, 3 & 5 mL	29, 12	Yellow	4,4	16, 16
359488 (pk. of 2) & 358992 (pk. of 4)	50 mL Conical, 3 & 5 mL Round	30, 12	Lime Green	4,4	16, 16
356985 (pk. of 2)	230 mL Conical	62	Orange	1	4

<b>ACCESSORIES AND ADAPTERS FOR FIXED ANGLED ROTORS (FX6100)</b>					
<b>ADAPTERS FOR TUBES</b>					
344497 (pk. of 1)	1.5/2.0 mL (must be inserted into PN 392830)	NA	NA	3/6	18/36*
392824 (pk. of 6)	10 mL	16	NA	1	6
392823 (pk. of 6)	15 mL	18	NA	1	6
392270 (pk. of 6)	15 mL Conical	17	NA	1	6
392822 (pk. of 6)	30 mL	25,7/25	NA	1	6
392821 (pk. of 6)	35 mL	29	NA	1	6
392830 (pk. of 6)	50 mL	29	NA	1	6
392268 (pk. of 6)	50 mL Conical	28,5/29	NA	1	6

Accommodates 100 mL, 94 mL & 85 mL tubes without adapters, directly in rotor cavity.

\* Patent Pending.

\*\* Corning is a trademark of Corning Incorporated.

† Validation of microbiological containment was done at an independent, third-party facility (Health Protection Agency, Porton Down, UK or USAMRIID, Ft. Detrick, MD, USA). Improper use or maintenance may affect seal integrity and, thus, containment.

‡ Adapters can be double stacked.

For any additional information, please contact your local Beckman Coulter representative or visit our web site at:

[www.beckmancoulter.com/X12R](http://www.beckmancoulter.com/X12R)

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