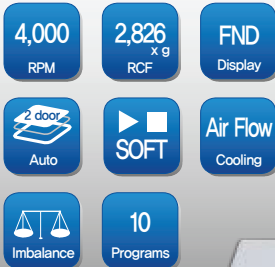


# 416

## Low Speed Centrifuge

Ideal for biological sample separation of cells, bloods, urines, etc



- Compact design with automatic door release
- Max. 4,000 rpm/2,826 g, Time setting to 99 min 59 sec or continuous
- Rapid acceleration and deceleration
- "SOFT" start/stop function for gentle acceleration/deceleration
- Digital display of speed and remaining time
- Automatic RPM/RCF conversion
- Automatic recognition and alarms for imbalance, over-speed and over-heat
- Program memory for up to 10
- Unique air-flow cooling internal design
- Three layered safe door with auto-lock function
- Complete with autoclavable, fixed angle rotor (16 x 15 ml tubes) or swing-out rotor (4 wings or 6 wings) with buckets (50 ml, 15 ml, 2 x 15 ml, etc)
- A range of adaptors being available for both rotors for tubes from 3 ml to 15 ml

Display and Control Interface



Technical Specifications

	Fixed Angle Rotor	Swing Rotor	Program memory	10
Max. capacity	16 x 15 ml	4 x 2 x 15 ml 4 x 50 ml 2 x 2 x MTP	Imbalance cutout	Yes
Max. RPM/RCF	4,000/2,700	4,000/2,826	Safety lid lock	Yes
Time control	Timed < 100 min, or continuous		Lid drop protection	Yes
RCF/RPM conversion	Yes		Automatic door release at completion	Yes
Noise level (dependent on rotor)	≤60 dB		Power supply	220V/50~60Hz (110V optional)
Acc. time to max. speed	≤20 sec		Power requirement	300 VA
Dec. time from max. speed	≤25 sec		Dimension (W x D x H)	375 x 480 x 260 mm
SOFT start/stop	Yes		Weight without rotor	19.5 kg
			CE mark	Yes
			Cat. No.	7,617,514,201

Rotors & Accessories



Swing rotor, 7,601,111,140  
4 loadings  
Angle : 90°

	Round bucket 7,601,111,100 Sleeve bore (Φx h)mm : 30.5 x 125		Conical bucket 7,601,111,101 Sleeve bore (Φx h)mm : 29.5 x 125
	Conical bucket 7,601,111,103 Sleeve bore (Φx h)mm : 17 x 125		Bucket for 2 x 15 ml tubes 7,601,111,171 Sleeve bore (Φx h)mm : 17 x 125
	Bucket 7,601,111,102 Sleeve bore (Φx h)mm : 17 x 125		

Tube					
Tube capacity(ml)	50	50 ml conical	15	15 ml conical	15
Adaptor	None			None	
Cat. No.	-	7,617,113,030	7,601,113,045	-	
Adaptor Φ x L(mm)	-	29.5 x 17.5	18.5 x 100	-	
Max.rpm	4,000				
Max.rcf(g-force)	2,700				
Radius(mm)	151.5				

**Rotors & Accessories**



Swing rotor, **7,601,111,190**  
 4 loadings  
 Angle : 90°  
 Hole diameter (Φ, mm) : 30.5  
 Max height for tube fit (mm) : 120

	Buckets, <b>7,601,111,192</b> Sleeve bore (Φ x h)mm : 30.5 x 120
	Buckets, <b>7,601,111,191</b> Sleeve bore (Φ x h)mm : 17 x 120

Tube					
Tube capacity(mL)	50	50 mL conical	15	15 mL conical	15
Adaptor	None				None
Cat. No.	-	7,617,113,030	7,601,113,045	-	-
Adaptor Φ x L(mm)	-	29.5 x 17.5	18.5 x 100	-	-
Max.rpm	4,000				
Max.rcf(g-force)	2,700				
Radius(mm)	151.5				



Swing rotor, **7,601,111,170**  
 6 loadings  
 Angle : 90°  
 Hole diameter (Φ, mm) : 17  
 Max height for tube fit (mm) : 125

	Buckets, <b>7,601,111,172</b> Sleeve bore (Φ x h)mm : 17 x 125
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Tube			
Tube capacity(mL)	10	15	15 mL conical
Max.rpm	4,000		
Max.rcf(g-force)	2,826		
Radius(mm)	158		



Swing rotor, **7,601,111,180**  
 2 loadings  
 Angle : 90°  
 Area dimension (mm) : 86.3 x 130.3  
 Max height for tube fit (mm) : 35

Tube	
Tube capacity(mL)	MTP
Rack capacity(ea/2)	2/4
Max.rpm	4,000
Max.rcf(g-force)	1,986
Radius(mm)	111



Angle rotor, **7,601,111,130**  
 16 x 15 mL/15 mL conical  
 Angle : 45°  
 Hole diameter (Φ, mm) : 18  
 Max height for tube fit (mm) : 135 (125 for conical)

	Steel sleeves, <b>7,601,111,040</b> Sleeve bore(Φ x h)mm : 18 x 135 Sleeve bore(Φ x h)mm : 18 x 125 (15 mL Conical)
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Tube						
Tube capacity(mL)	15	3	4	5	10	15 mL conical
Adaptor	None				None	None
Cat. No.	-	7,601,113,030	7,601,113,035	7,601,113,040	-	-
Adaptor Φ x L(mm)	-	13 x 63	13 x 65	13 x 85	-	-
Max.rpm	4,000					
Max.rcf(g-force)	2,700	2,397	2,433	2,692	2,638	2,700
Radius(mm)	151.5	134	136	146	150.5	147.5