

VWR® symphony™ 4417/R Centrifuges

- Compact, space saving design
- Corrosion resistant, stainless steel rotor chamber
- Automatic *g*-force calculation and display
- Accommodates tubes from 0.2 mL to 100 mL
- Quiet, maintenance-free induction drive
- Set and view speed in both RPM and RCF
- Automatic rotor recognition system
- Imbalance detection with safety shut down
- Microprocessor control with splash resistant digital display
- Permanent indication of preset and actual values
- Selection of speed and *g*-force in increments of 10
- Ten acceleration and deceleration levels
- Maintenance free induction system
- Audible signal at the end of run



The VWR symphony 4417 series includes both the ambient 4417 and refrigerated 4417R centrifuges. Various fixed angle and swing-out rotors are available to process a variety of different tube types from 0.2 to 100 mL. These units are well-suited for all standard blood collection, conical and microcentrifuge tubes, as well as standard and deep-well microplates. High speed and *g*-force make the 4417 series ideal for applications ranging from clinical to cell culture and molecular biology.

Powerful, brushless motors quickly accelerate rotors to the preset speed. Braking is dynamically controlled to bring the rotors to a soft stop without disrupting fragile samples. Operation of the centrifuge may be timed, continuous or momentary. The rotor recognition system in the 4417 series provides safety and convenience when different rotors are used. Each rotor is recognized at the beginning of a run and automatically limited to its rated maximum speed. In addition, by recognizing the rotor, the microprocessor can accurately calculate and display *g*-force during a run.

Specifications	
Maximum Volume	400 mL (4 x 100 mL)
Maximum Speed/RCF	13,500 rpm
Minimum Speed/RCF	17,320 <i>g</i>
Brake	Dynamically controlled
Temp. Range	-10 to 40°C (4417R only)
Timer	10 sec. up to 9 hrs. 59 min. or continuous

Description	Cat. No.
VWR symphony 4417 Non-Refrigerated Centrifuge	89171-142
VWR symphony 4417R Refrigerated Centrifuge	89171-144
Swing-out Rotors	
2 x 3 Microplate	89171-146
4 x 100 with Lid	89171-158
Carriers for 89171-158 (Four Required)	
1 x 85/100 mL (Pack of 2)	89171-160
1 x 50 mL (Pack of 2)	89171-162
1 x 15 mL (Pack of 2)	89171-164
4 x 10 mL (Pack of 2)	89171-166
4 x 5/7 mL (Pack of 2)	89171-168
5 x 1.5 mL (Pack of 2)	89171-170
Fixed-Angle Rotors	
6 x 50 mL Conical Angle Rotor	89171-154
12 x 15 mL Conical Angle Rotor	89171-156
Adapters for Fixed-Angle Rotors	
5/7 mL for 50 mL Rotor (Pack of 6)	82013-826
5/7 mL for 15 mL Rotor (Pack of 6)	82013-820
15 mL for 50 mL Rotor (Pack of 6)	82013-824
Microtube Rotors	
44 x 1.5/2.0 mL Fixed Angle	89171-148
24 x 1.5/2.0 mL High Speed Fixed Angle	89171-150
24 x 1.5/2.0 mL High Speed Fixed Angle with Lid	89171-152
Adapters for Microtube Rotors	
0.5 mL (Pack of 6)	20668-224
0.4 mL (Pack of 6)	20668-226
0.2 mL (Pack of 6)	20668-228



VWR® symphony™ 4417/R Centrifuge Package Bundles

Description	Cat. No.
Non-refrigerated Clinical Bundle	
VWR symphony 4417 Non-Refrigerated Centrifuge, with 4 x 100 mL swing-out rotor, carriers for 5/7 mL and 10 mL round tubes	89176-488
Non-refrigerated Cell Culture Bundle	
VWR symphony 4417 Non-Refrigerated Centrifuge, with 4 x 100 mL swing-out rotor, carriers for 15 mL and 50 mL conical tubes	89176-490
Non-refrigerated Plate Bundle	
VWR symphony 4417 Non-Refrigerated Centrifuge, with 2 x 3 microplate rotor	89176-492
Refrigerated Clinical Bundle	
VWR symphony 4417R Refrigerated Centrifuge, with 4 x 100 mL swing-out rotor, carriers for 5/7 mL and 10 mL round tubes	89176-494
Refrigerated Cell Culture Bundle	
VWR symphony 4417R Refrigerated Centrifuge, with 4 x 100 mL swing-out rotor, carriers for 15 mL and 50 mL conical tubes	89176-496
Refrigerated Plate Bundle	
VWR symphony 4417R Refrigerated Centrifuge, with 2 x 3 microplate rotor	89176-498