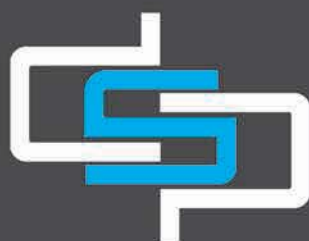


UCEN-110 Ultra centrifuge Datasheet

2017



PHEDCO

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The ultracentrifuge is a centrifuge optimized for spinning a rotor at very high speeds, capable of generating acceleration as high as 200000. Ultracentrifuges have important uses in molecular biology, biochemistry, and polymer science. Vacuum system in ultracentrifuge allows a reduction in friction generated at high speeds. Vacuum systems also enable the maintenance of constant temperature across the sample, eliminating convection currents that interfered with the interpretation of sedimentation results.

Ultracentrifuges are available with a wide variety of rotors suitable for a great range of experiments. Most rotors are designed to hold tubes that contain the samples. Rotors are made of a single block of material and hold the tubes in cavities bored at a predetermined angle. Rotors are used in biology for pelleting of fine particulate fractions, such as cellular organelles (mitochondria, microsomes, and ribosomes) and viruses.

Description	Specification	Unit
Max. Speed	40000	RPM
RCF	173000	g
Max. Capacity	6 * 250	cc
Time	100	hours
Accel/Decel	10 step	-
Temperature	-5 ~ +40	°C
Motor	AC Induction Motor	-
Power supply	220V, 16A, 1Phase, 2kW	-
Dimension	78 * 100 * 115	cm
Weight	440	kg
Display	RPM Time, Temperature Temperature Limit Accel/Decel Rotor type	-



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	Tube Capa.	1.5ml	2.0ml	Type Angle Rotor $\angle 40^{\circ}\text{C}$ Max. RPM 40,000 rpm Max. RC 145,966 xg Radius 81.6 mm
	DIM. $\varnothing$ x L mm	11 x 38	11 x 38	
	Tube Type			
	Adapter			
	Tube per Rotor	24		
	Max.RCF	145,966		
	radius (mm)	81.6		
boring $\varnothing$ x L mm	11 x 37.5	11 x 37.5		
Cat.NO.				

	Tube Capa.	10ml		Type Angle Rotor $\angle 26^{\circ}\text{C}$ Max. RPM 45,000 rpm Max. RC 181,795 xg Radius 80.3 mm
	DIM. $\varnothing$ x L mm	16 x 67		
	Tube Type			
	Adapter			
	Tube per Rotor	12		
	Max.RCF	181,795		
	radius (mm)	80.3		
boring $\varnothing$ x L mm	16.5 x 70			
Cat.NO.				

	Tube Capa.	13.5ml		Type Angle Rotor $\angle 26^{\circ}\text{C}$ Max. RPM 50,000 rpm Max. RC 203,197 xg Radius 72.7 mm
	DIM. $\varnothing$ x L mm	16.2 x 78		
	Tube Type			
	Adapter			
	Tube per Rotor	8		
	Max.RCF	203,197		
	radius (mm)	72.7		
boring $\varnothing$ x L mm	16.5 x 83.5			
Cat.NO.				

	Tube Capa.	13.5ml		Type Angle Rotor $\angle 26^{\circ}\text{C}$ Max. RPM 50,000 rpm Max. RC 242,886 xg Radius 86.9 mm
	DIM. $\varnothing$ x L mm	16.2 x 78		
	Tube Type			
	Adapter			
	Tube per Rotor	12		
	Max.RCF	242,886		
	radius (mm)	86.9		
boring $\varnothing$ x L mm	16.5 x 82.5			
Cat.NO.				

	Tube Capa.	38.5ml		Type Angle Rotor $\angle 29^{\circ}\text{C}$ Max. RPM 50,000 rpm Max. RC 252,389 xg Radius 90.3 mm
	DIM. $\varnothing$ x L mm	25 x 89		
	Tube Type			
	Adapter			
	Tube per Rotor	6		
	Max.RCF	252,389		
	radius (mm)	90.3		
boring $\varnothing$ x L mm	25.7 x 92.3			
Cat.NO.				



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Rotors which may be used on UCEN-110

Ucen38.5U-8 	Tube Capa.	38.5ml		
	DIM. Ø x L mm	25 x 89		
	Tube Type			
	Adapter			
	Tube per Rotor	8		
	Max.RCF	221,867	Type	Angle Rotor ∠30°C
	radius (mm)	98.0	Max. RPM	45,000 rpm
	boring Ø x L mm	25.8 x 92.3	Max. RC	221,867 xg
	Cat.NO.		Radius	98 mm
Ucen50U-8 	Tube Capa.	50ml		
	DIM. Ø x L mm	28.8 x 107		
	Tube Type			
	Adapter			
	Tube per Rotor	8		
	Max.RCF	177,628	Type	Angle Rotor ∠30°C
	radius (mm)	99.3	Max. RPM	40,000 rpm
	boring Ø x L mm	29 x 100.5	Max. RC	177,628 xg
	Cat.NO.		Radius	99.3 mm
Ucen94U-6 	Tube Capa.	94ml		
	DIM. Ø x L mm	38 x 102		
	Tube Type			
	Adapter			
	Tube per Rotor	6		
	Max.RCF	177,807	Type	Angle Rotor ∠25°C
	radius (mm)	99.4	Max. RPM	40,000 rpm
	boring Ø x L mm	38 x 100	Max. RC	177,807 xg
	Cat.NO.		Radius	99.4 mm
Ucen250U-6 	Tube Capa.	250ml		
	DIM. Ø x L mm	60 x 125		
	Tube Type			
	Adapter			
	Tube per Rotor	6		
	Max.RCF	90,139	Type	Angle Rotor ∠25°C
	radius (mm)	129	Max. RPM	25,000 rpm
	boring Ø x L mm	60 x 101	Max. RC	90,139 xg
	Cat.NO.		Radius	129 mm

