



Series C10 - C12

COMPACT PORTABLE LABORATORY CENTRIFUGE

The belt driven or direct drive series C10 or C10-DD centrifuge is a medium to high accuracy laboratory centrifuge designed for the test and calibration of precision accelerometers and small electromechanical devices.

Both series make use of AC brushless motor technology that allows for long life maintenance free operation.

The direct drive technology combined with the new generation of all digital **AXIDYN LT** control system delivers large servo bandwidth and high dynamic response. It also does minimize maintenance cost.

Several models and options are available:

- Customized electrical slip-rings
- Optical fiber rotary joint and modems
- Fluid rotary joints

The new generation of control system **AXIDYN LT** includes the following operating modes: DC linear acceleration and sinusoidal g profiles.

Optional remote interfaces available are:

- Ethernet
- IEEE 488
- USB port
- RS232 / RS422
- I/O analog input/output

Based upon its 30 years of experience, **ACTIDYN SYSTEMES** team of engineers has designed a family of high performance simulators, which combines quality and high performances at low cost that are conceived to satisfy customers needs.

COMPACT PORTABLE LABORATORY CENTRIFUGE

Model	C10	C10 DD	C12	C12DD	
Diameter	0.8	0.8	1.0	1.0	m
Total height	1	1.4	0.8	1.4	m
Weight	250	280	250	200	kg
Max rotating speed	430	430	400		tr/min
Acceleration range	0.5 to 50	0.1 to 50	0.5 to 50	0.1 to 50	g
	5 to 500	5 to 500	6 to 600	6 to 600	m/s ²
Centrifuge radius nominal	0,25	0,25	0.35	0.35	m
Table top diameter	0,6	0,6	0.8	0.8	m
Maximum payload mass	20	20	20	20	kg
Acceleration command					
Range	5 to 500	0.05 to 500	5 to 500	0.05 to 500	m/s ²
Command resolution	0.1	0.01	0.1	0.01	m/s ²
Acceleration readout					
Range	0,01 to 500	0,01 to 500	0,01 to 500	0,01 to 500	m/s ²
Readout resolution	1x10 ⁻²	1x10 ⁻⁴	1x10 ⁻²	1x10 ⁻⁴	m/s ²
Linearity	1x10 ⁻³	1x10 ⁻⁴	1x10 ⁻³	1x10 ⁻⁴	m/s ²

Optional Acceleration range up to 1000 g available

Voltage	230	230	230	230	V
Mains supply stability	+/- 10	+/- 10	+/- 10	+/- 10	%
Intensity	32	32	32	32	A
Frequency	50-60	50-60	50-60	50-60	Hz
Storage temperature					
Operating temperature	0 to 50	0 to 50	0 to 50	0 to 50	°C
Relative humidity (non condensing)	15 to 25	15 to 25	15 to 25	15 to 25	°C
	20 to 90	20 to 90	20 to 90	20 to 90	%
Number of lines	15	15	15	15	
Operating voltage DC	28	28	28	28	V
Intensity max.	1	1	1	1	A
Static resistance max.	2	2	2	2	Ω
Dynamic resistance (rms noise)	10	10	10	10	mΩ

Fluidic rotary joint, optical fiber link, different slip ring configuration available upon option

ACTIDYN SYSTEMES ALSO MANUFACTURE THESE EQUIPMENTS TO BETTER SERVE YOU

