



**Series C15 - C15-DD**

## **BENCH LABORATORY CENTRIFUGE**

The belt driven or direct drive series C15 or C15-DD centrifuge is a medium to high accuracy laboratory centrifuge designed for the dynamic 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.

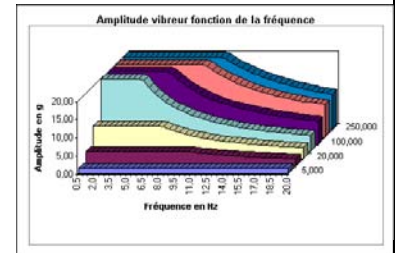
Optional remote interfaces available are:

- 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	C15	C15 DD	
Drum diameter	0,9	0,9	m
Length	1,4	-	m
Weight	250	250	kg
Max rotating speed	260	280	tr/min
Acceleration range	0,5 to 25 5 to 500	0,5 to 25 5 to 500	g m/s <sup>2</sup>
Centrifuge radius nominal	0,3	0,3	m
Table top diameter	0,8	0,8	m
Maximum payload mass	20	20	kg
<b>Acceleration command</b>			
Range	5 to 300	0,05 to 300	m/s <sup>2</sup>
Command resolution	0,1	0,01	m/s <sup>2</sup>
Acceleration readout			
Range	0,01 to 500	0,01 to 500	m/s <sup>2</sup>
Readout resolution	1x10 <sup>-2</sup>	1x10 <sup>-4</sup>	m/s <sup>2</sup>
Linearity	1x10 <sup>-3</sup>	1x10 <sup>-4</sup>	m/s <sup>2</sup>
<b>Vibration</b>			
Payload mass	1	1	Kg
Frequency range	1 to 20	DC to 50	Hz
Resolution	0,1	0,01	Hz
Acceleration range	0,2 to 0,6	0,02 to 0,6	g
<b>Power requirement</b>			
Line voltage	110 to 240	110 to 240	V
Installed power	4	4	kVA
Frequency	50 or 60	50 or 60	Hz
<b>Accessories</b>			
Slip rings number of lines	15	15	
Operating voltage DC	28	28	V
Intensity max.	1	1	A
Static resistance max.	2	2	Ω
Dynamic resistance (rms noise)	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**

