



Series C18-DD-TC

DIRECT DRIVE PRECISION LABORATORY CENTRIFUGE

The direct drive series C18-DD centrifuge is A high accuracy laboratory centrifuge designed for the test and calibration of precision accelerometers and small electromechanical devices.

This series makes 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 ND** 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 ND** includes the following operating modes: DC linear acceleration and sinusoidal g profiles.

In addition it can also operate as a digital rate table and a precision positioning simulator.

Optional remote interfaces available are:

- Ethernet
- IEEE 488
- Reflected memory interface Real time Bus
- 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

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Model	C18 DD	Units
Chamber height	1,8	m
Chamber width	1,4	m
Chamber depth	1,4	kg
System total mass	450	kg
Acceleration range	0,5 to 200 5 to 2000	g m/s ²
Centrifuge radius nominal	0,4	m
Square mounting platforms (2)	200 x 200	mm
Table top diameter	0,6	m
Maximum payload mass	10	kg
Acceleration command		
Range	0,01 to 2000	m/s ²
Acceleration accuracy	+/- 10	ppm
Command resolution	0.001	m/s ²
Readout resolution	0,0001	m/s ²
Rate command		
Range	0 to 4000	°/s
Resolution	0,00001	°/s
Stability over 360°	0,00001	% A
Position command		
Resolution	0,00001	°
Accuracy	+/- 1	Sec of arc
Temperature chamber		
Range	+120 to -55	°C
Accuracy	+/- 1	°C
Cooling media		LN ²
Temperature rate of change	5	°C/min
Power requirement		
Line voltage	110 to 240	V
Installed power	4	kVA
Frequency	50 or 60	Hz



ACTIDYN SYSTEMES ALSO MANUFACTURE THESE EQUIPMENTS TO BETTER SERVE YOU

