

Operation Manual Item: C2006



PLATEFUGE™ 2D DIGITAL MICROPLATE CENTRIFUGE

Introduction:

Thank you for purchasing the PlateFuge™ 2D MicroPlate Microcentrifuge. Please read this manual thoroughly prior to operating the instrument.

The PlateFuge 2D is designed for low speed applications and quick spin downs of PCR plates and microtiter plates. An adapter carrier is also available for 0.2ml PCR strips and tubes.

Installation:

Place the PlateFuge 2D on a flat and level surface nearby an electrical outlet. It should not be near a heat source or in direct sunlight.

Operation:

- Attach the power cord and place the power switch into the on "I" position. (ALWAYS attach power cord prior to powering on the power switch.)

- Open the lid and load your samples into the included rotor. Always ensure a balanced load and ensure the rotor thumb screw is tightened properly.
NOTE: The centrifuge should never be started with one plate or two plates that are not equally balanced. Additional information can be found in the following section of this manual, "Loading the Rotor".
- Close the lid and set the desired time and speed (in rpm or rcf) on the digital display.
- To set the time use the ▲▼ buttons on the left side of the control panel and select the desired speed and the buttons on the right side for the time
- For continuous mode, set the timer to 00:00. The timer will count the duration of the run.
- To start the centrifuge, first ensure that the rotor is fully tightened and that the lid is fully closed, then press the "START/STOP" key.
- When the desired run time is completed the rotor is stopped, pull on the lid tab to open the lid.
- To use the quick spin function, press and hold the "QUICK" button. The unit will run to the set speed for as long as the button is held.



NEVER Attempt: to remove samples until the rotor has come to a complete stop. The rotor will automatically top if the lid is opened during a run.

Specifications:

Speed:	500-2800 rpm
Max rcf:	728 xg
Timer:	0 to 59 sec / 1 to 99 min. cont.
Capacity:	2 x PCR Plates (or microplates) 192 x 0.2ml or 24 x PCR strips
Dimensions:	9.2(W) x 12 (D) x 8.5(H) in. 36(W) x 28(D) x 25(H) cm
Electrical:	C2006: 120V, 50-60 Hz C2006-E: 220-240V, 50-60 Hz
Max. Radius:	8.0cm

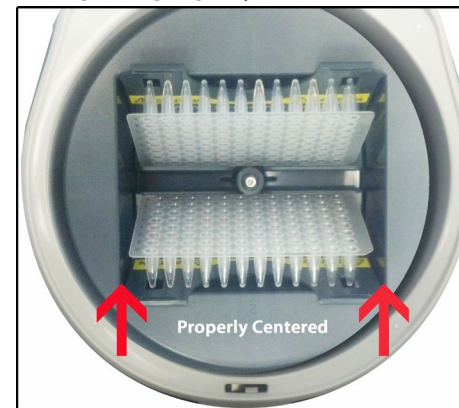
Loading the Rotor:

To ensure safe operation and long life of the instrument, samples must always be loaded into the rotor in a balanced fashion.

Plates must always be loaded in the center of the carrier. When loading non-skirted plates, it is important to line up the wells of the plate with those shown on the plate carrier. Starting the centrifuge with the plates not properly

centered will result in an unbalanced load and increased vibration.

Example of properly balanced rotor:



Example of improperly balanced rotor:



Cleaning and Maintenance:

The centrifuge rotor can be removed for cleaning by using removing the center thumb screw and lifting the rotor upward. Once removed, the rotor can be cleaned with isopropyl alcohol. Reinstall ensuring the rotor thumb screw is tightened properly.

Service and Contact:

In the event that service or technical support is required, please contact Benchmark Scientific by phone at (908) 769 5555 or by email at info@benchmarkscientific.com.