

BECKMAN COULTER

Optima L / XL / LE 系列 簡易操作手冊

操作程序：

1. 打開電源開關。
2. 樣品先平衡且對稱置入 ROTOR。
3. 鎖緊 ROTOR 蓋子，將 ROTOR 置於離心槽內。
4. 關上門，按【VACUUM】，機器開始抽真空。
5. 輸入所需要的參數：
 - 速度：按【SPEED】鍵，再以數字鍵輸入所要的速度。
 - 時間：按【TIME】鍵，再以數字鍵輸入所要的時間。
 - 溫度：按【TEMP】鍵，再以數字鍵輸入所要的溫度。
6. 選擇加速率【ACCEL】：MAX、SLOW。
 - 減速率【DECEL】：MAX、SLOW、OFF。
7. 待真空降到 750 μ 以下（螢幕顯示 750 不閃爍，顯示 200 閃爍），按【ENTER】鍵
再按【START】鍵，機器開始運轉，並請務必等離心機到達所設定之轉速後再離開。
8. 等待所設定的時間參數計數到 0 或者要中止運轉按下
【STOP】鍵，當 ROTOR 停止後按下【VACUUM】鍵，
讓真空釋放。
9. 打開門及拿出 ROTOR。

設定運轉程式：

1. 按【PROG】鍵，輸入 1~9 其中一數字。
2. 輸入【SPEED】、【TEMP】、【TIME】、【ACCEL】和【DECEL】等參數。
3. 按【SAVE PROG】，儲存程式。

保養注意事項：

1. Chamber 請保持乾淨及乾燥。
2. 離心時，待轉速到達所設定之速度時，方可離開。
3. Rotor 請保持乾淨並檢查 O-ring 視需要塗上 vacuum grease。
4. 門上的 O-ring 請定期擦拭乾淨並塗上 vacuum grease。

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Optima L / XL / LE serial Operation

STANDARD OPERATION

1. With the power on, open the chamber door, install the rotor, and close the chamber door. Press [VACUUM] if you want to evacuate the chamber now.
2. Enter the required run conditions (SPEED, TEMP, and TIME, HOLD, or $\omega 2t$).
3. Select ACCEL and DECEL profiles.
4. Press [ENTER/RECALL] and [START]. (The vacuum system is automatically activated now, unless you pressed [VACUUM] earlier.)

Press [STOP] to terminate a run in the HOLD mode (or to stop any run for any reason). Runs in the timed and $\omega 2t$ modes will terminate automatically and the instrument will sound a tone to indicate the end of the run. After the rotor has stopped, press [VACUUM] to vent the chamber.

Open the chamber door and remove the rotor. To keep the rotor chamber clean and dry, keep the door closed between runs.

REPEATING A RUN

To repeat a run, press [ENTER/RECALL] and [START]. There is no need to reenter run conditions unless you wish to make a change.

PROGRAMMED OPERATION

1. With the power on, open the chamber door, install the rotor, and close the chamber door. Press [VACUUM] if you want to evacuate the chamber now.
 2. Press [PROG] and use the keypad to select a program number.
(Or press [PROG] repeatedly until the required program appears.)
- 3-3 Run Procedure
3. Press [ENTER/RECALL] and [START] to begin the run. (The vacuum system is automatically activated now, unless you pressed [VACUUM] earlier.)

Any of the run conditions can be changed while a programmed run is in progress. Such changes will affect only the current run. To change a parameter during the

run:

1. Press a parameter key (for example, [SPEED]).
2. Enter the new value.
3. Press [ENTER/RECALL].

The run in progress will be modified accordingly. Runs in the timed and ω 2t modes will terminate automatically when the set value is reached.

4. After the rotor has stopped, press [VACUUM] to vent the chamber.
5. Open the chamber door, remove the rotor, and close the door.

To keep the rotor chamber clean and dry, keep the door closed between runs.

Maintenance and Clean:

1. Keep Chamber Clean
2. Need check spinning speed reached user's setup speed rpm
3. Keep Rotor Clean and Rotor Lid O-ring need clean with vacuum grease °
4. Keep Door O-ring Clean with vacuum grease °