



Model 2500 Quick Start Manual

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Quick Start Manual



LAB Online Exhibition



1



Height Adjustment

The apparatus height is set and configured for baskets and paddles purchased at Distek, and should not have to be changed unless the height is out of specification.

Follow the procedure below to set the height using paddles or baskets:



- Always use paddle blades to set the shaft height initially before switching to baskets.
- For better height adjustment reproducibility, it is recommended to keep vessels in the same position after emptying and washing.

Initial Adjustment (Using Paddles)

- 1 Turn the Easy Drive Lift knob about 1/2 turn following the direction of the "Released" indicator.
- 2 Fully raise the drive head and turn the Easy Drive Lift knob following the direction of the "Lock" indicator, to lock the drive head in place.
- 3 Position the height setting to **Neutral** by positioning the Quick Height Adjustment block to horizontal position. See figure below for reference.



Height adjustment block in horizontal position

- 4 Gently slide each shaft halfway up through each spindle. If shafts are hard to slide, a very thin film of vacuum grease applied on the top end of the shaft will allow it to slide smoothly.

- 5** Loosely install the locking collar on each shaft.
- 6** Install and secure (finger tight) the paddle blades.
- 7** With vessels in place, gently push down each shaft until the paddle blade touches the bottom of each vessel.
- 8** Lock each shaft collar using 5/64 inch hex wrench. Do not over-tighten the set screws on the shaft collars and avoid putting any weight on the drive head when performing this step.

For Paddles

- 1** With the drive head fully raised, position the Quick Height Adjustment block to USP 2 Paddles.



Height adjustment block position for paddles

- 2** Install and secure (finger tight) the paddle blades.
- 3** Lower the drive head and turn the knob to lock position. The distance of 25 ± 2 mm between the blade and the inside bottom of the vessel is set and maintained during the test.

For Baskets

- 1 With the drive head fully raised, position the Quick Height Adjustment block to USP 1 Baskets.



Height adjustment block position for baskets

- 2 Install and secure (finger tight) the basket adapter. The baskets must be kept dry prior to starting the test.
- 3 Lower the drive head and turn the knob to lock position. The distance of 25 ± 2 mm between the blade and the inside bottom of the vessel is set and maintained during the test.




2



Create a New Method



This section describes how to create and save a method for future dissolution sessions. By simply loading your method, all the setup parameters for a particular test will be stored in the system. A library of up to 100 methods facilitates routine dissolution tests.

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- 1  t1 Choose the **Methods** tab.
- 2  t2 Select **New**.
- 3  t3 You will be prompted to enter a Method Title. An on-screen keyboard will be displayed to enter the name of the method. Press **Enter** to accept the method name.



New Method Title

- 2 The **Create New Method** screen will be displayed. This screen contains the dissolution test parameters. The display is divided in three parts. The left side shows parameter name and data; the right side shows input display; the bottom section shows command buttons.
 - 4  t4 Select the parameter(s) you want to change in the method.
 - 5  t5 Once all bath parameters meets criteria, **Save** the method.



Create New Method Screen



- You can also create a new method by using the Settings tab then Methods icon.
- If you enter the wrong data, a popup message alerts you about the range of a particular parameter.




3



Method Run

This section describes how to load pre-programmed methods for quick and easy setup and operation of the instrument. Samples can be introduced simultaneously or staggered when starting a test.

Follow the procedure below to load a method:

-  1 Choose **Methods** tab. The **Select Method** screen displays the method listing.
-  2 Select the desired method you want to run.
-  3 Press **Run** to start the test.



Edit a Method



- Use the scroll bar if the instrument has more than 4 created methods.
- The method list can be sorted alphabetically by Name or Date Last Modified. Simply point to Name title field for sorting by name and Date Last Modified title field for sorting by date.

4







Manual Test

This section describes how to use Manual Run for quick and easy set up and operation of the instrument. The tests start in different ways, depending on whether the user wants to introduce the sample using paddles or baskets.

Follow the procedure below to start a manual test:

1 For 2500 and 2500RTD

-  From the Dashboard, set the temperature by selecting temperature display. Enter the desired temperature using the on-screen keypad.
-  Start heating by selecting the *Play* button.
-  Set the stirring speed by selecting *RPM display*. Enter the desired temperature using the on-screen keypad.
-  Start stirring by selecting the *Play* button.



2500 Manual Run



2500RTD Manual Run

For 2500 Select

- t1 From the Dashboard, click Select Vessels to enable desired number of vessels.
- t2 Set the temperature by selecting **TEMP°C** gauge. Enter the desired temperature using the on-screen keypad.
- t3 Set the stirring speed by selecting **RPM** gauge. Enter the desired RPM using the on-screen keypad.
- t4 Set the vessel volume by selecting **VOLUME** gauge. Enter the desired volume using the on-screen keypad.
- t5 Set which apparatus will be use by selecting **APPARATUS** gauge. Select the desired apparatus in the pop up window.



2500 Manual Run

2 For 2500 and 2500RTD

- t5 If a timer is needed during Manual Run, select the **Play** button of the Timer control display.






2500 Manual Run Start Timer



2500RTD Manual Run Start Timer

For 2500 Select

-  Start stirring by selecting the RPM **Play** button.
-  Start heating by selecting the TEMP°C **Play** button.
-  If a timer is needed during Manual Run, select the TIMER **Play** button.



Manual Run Setup Screen



- Press **Pause** icon on the RPM control display to stop stirring to introduce the samples (on any apparatus used), then restart stirring.
- Press **Pause** icon on the **Timer** control display to stop the timer momentarily if needed (use for adding or changing media). Continue the timer by pressing the **Play** button.